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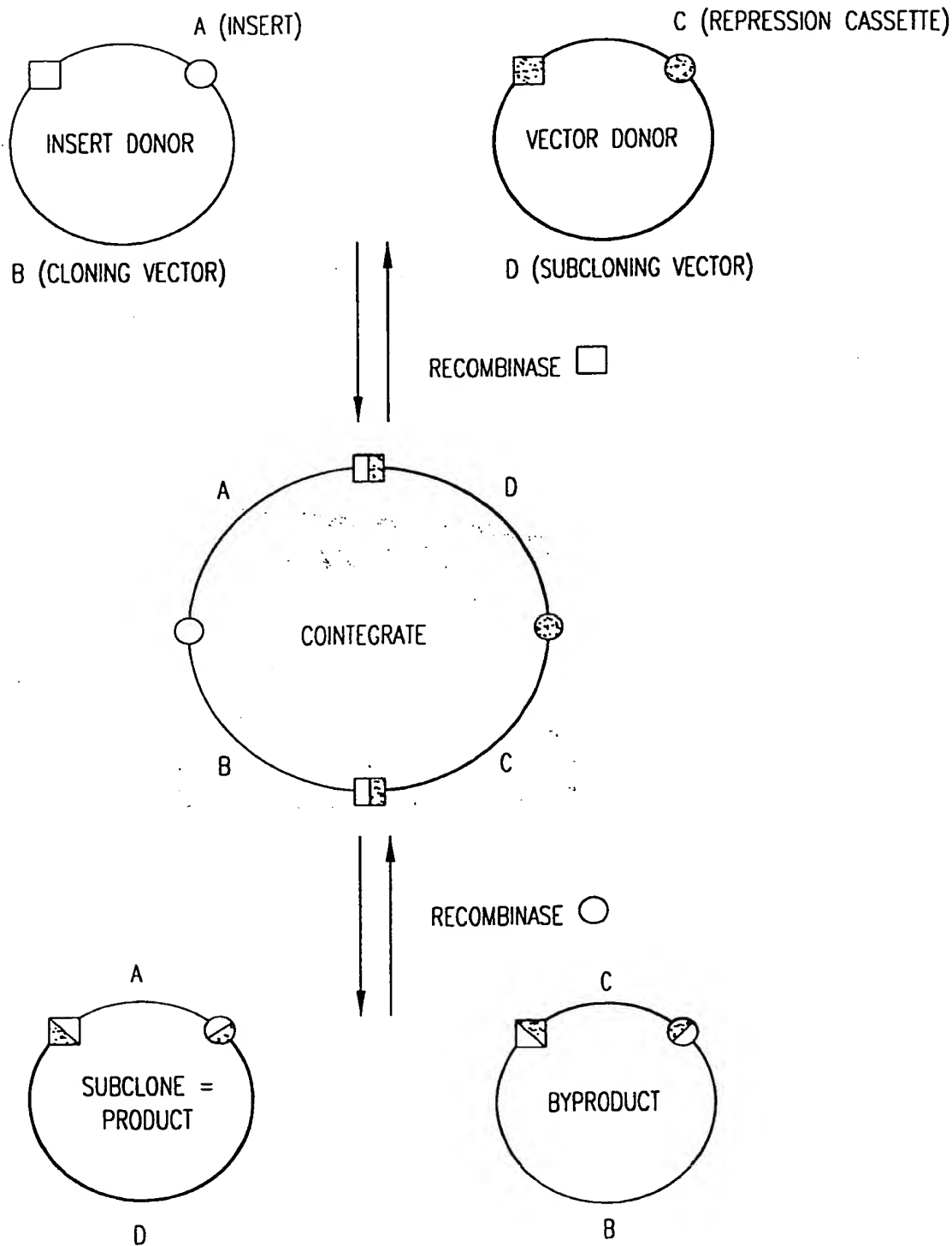


FIG.1

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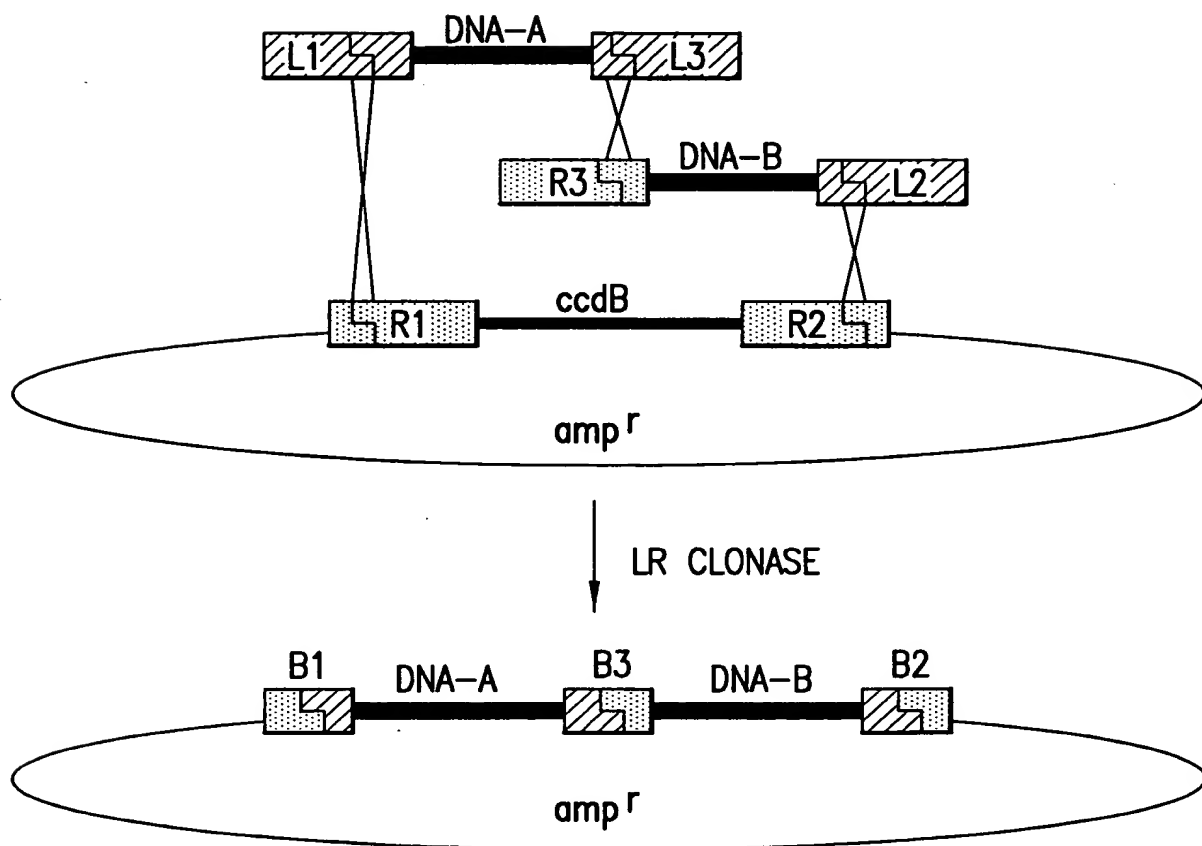


FIG.2

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 104050-4162E/60

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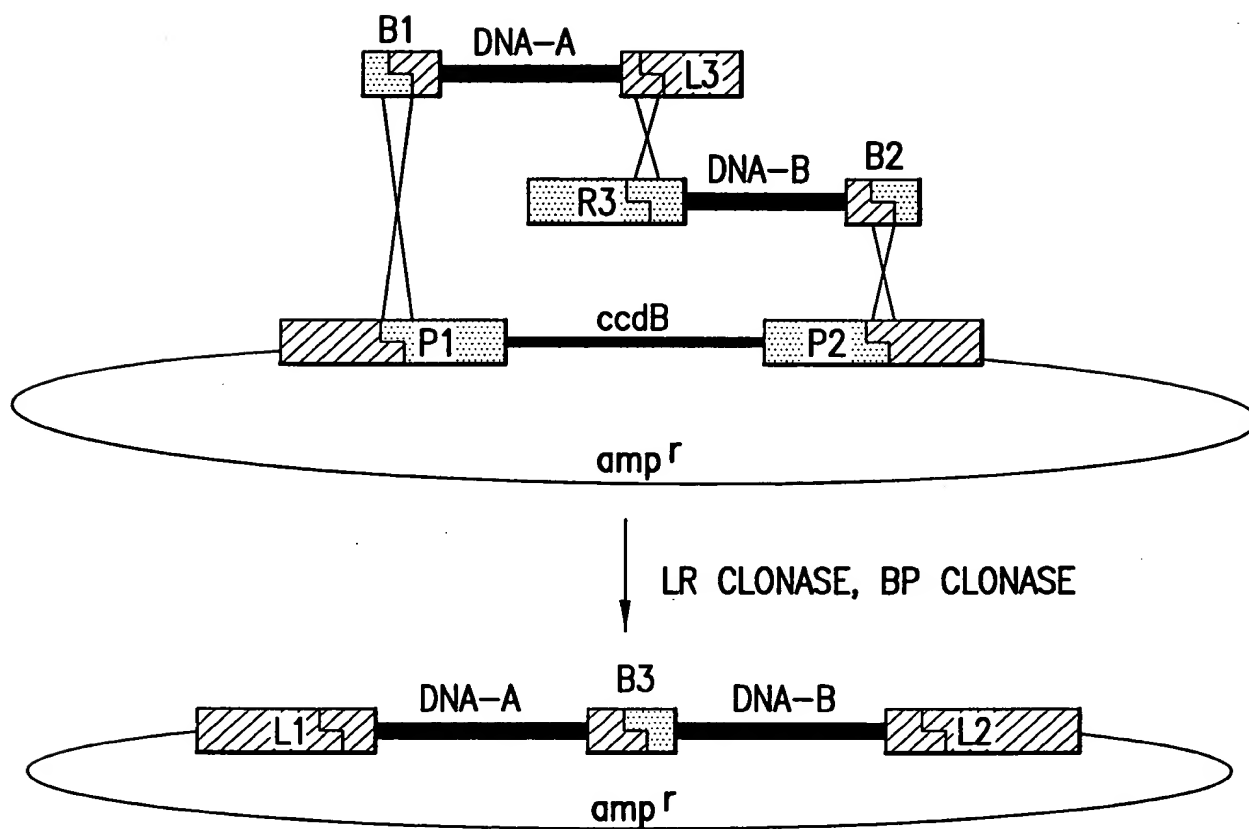


FIG.3

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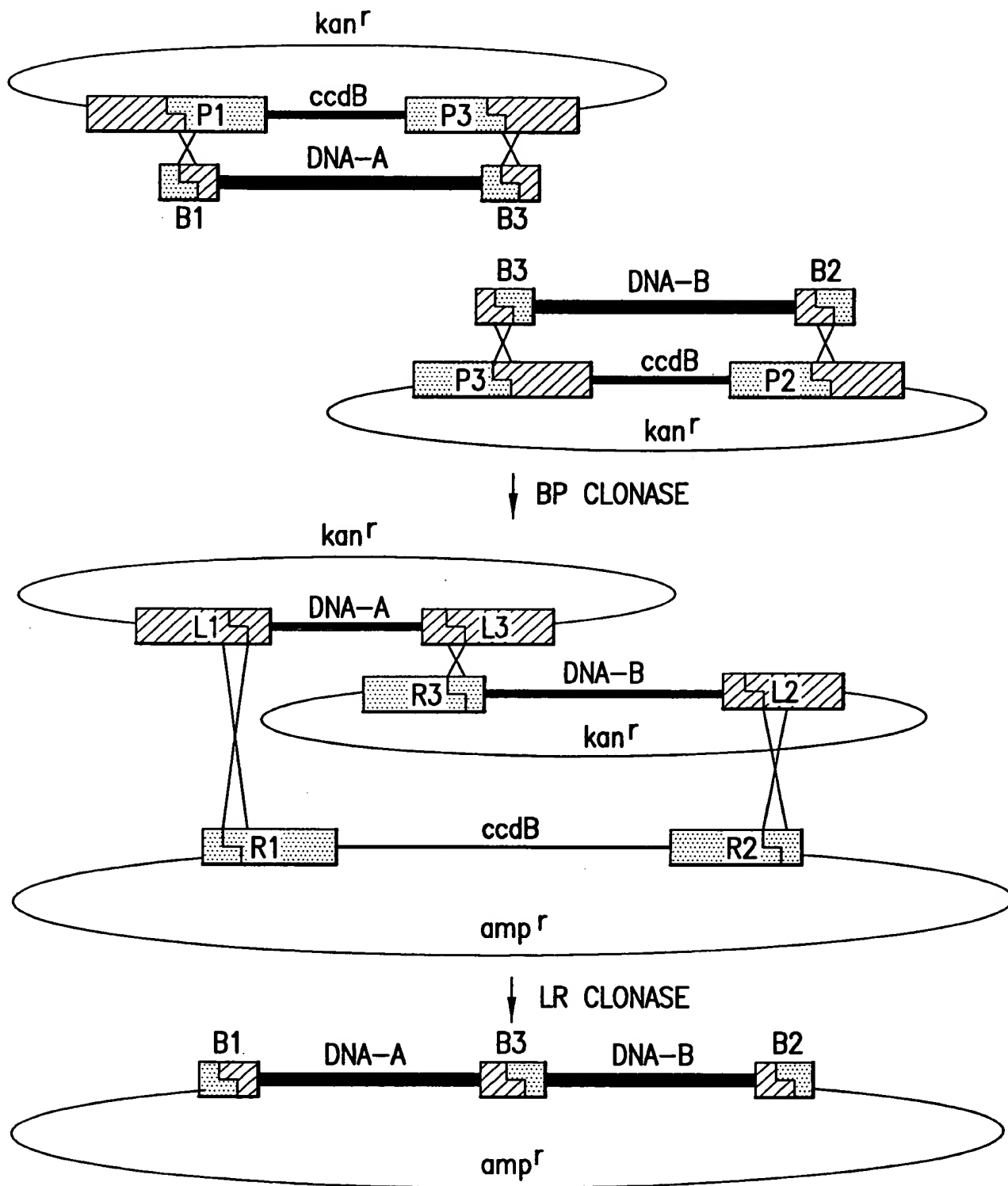


FIG.4

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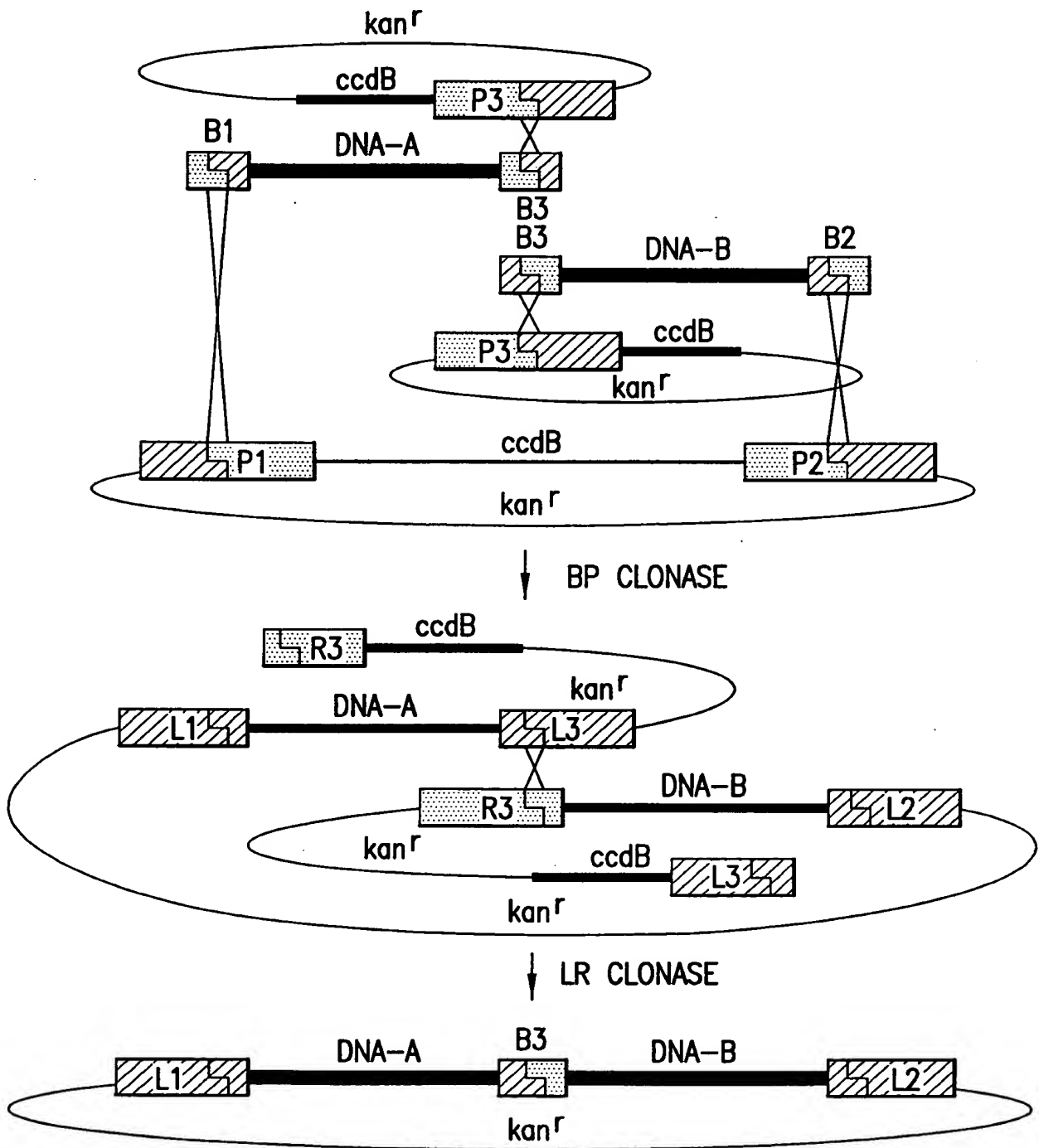


FIG.5

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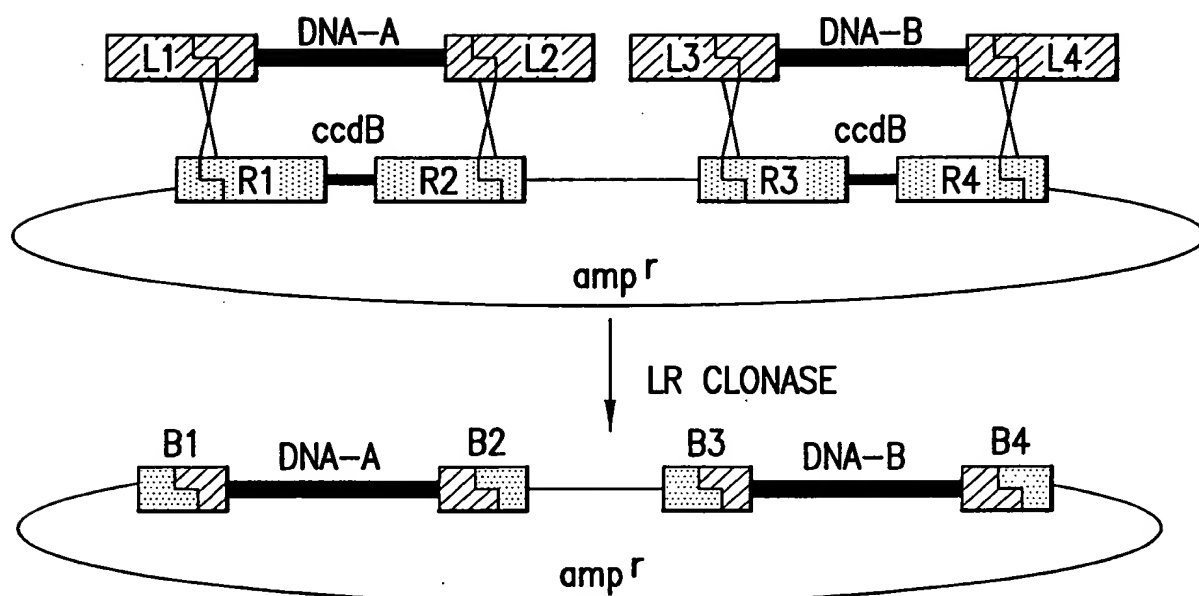


FIG.6

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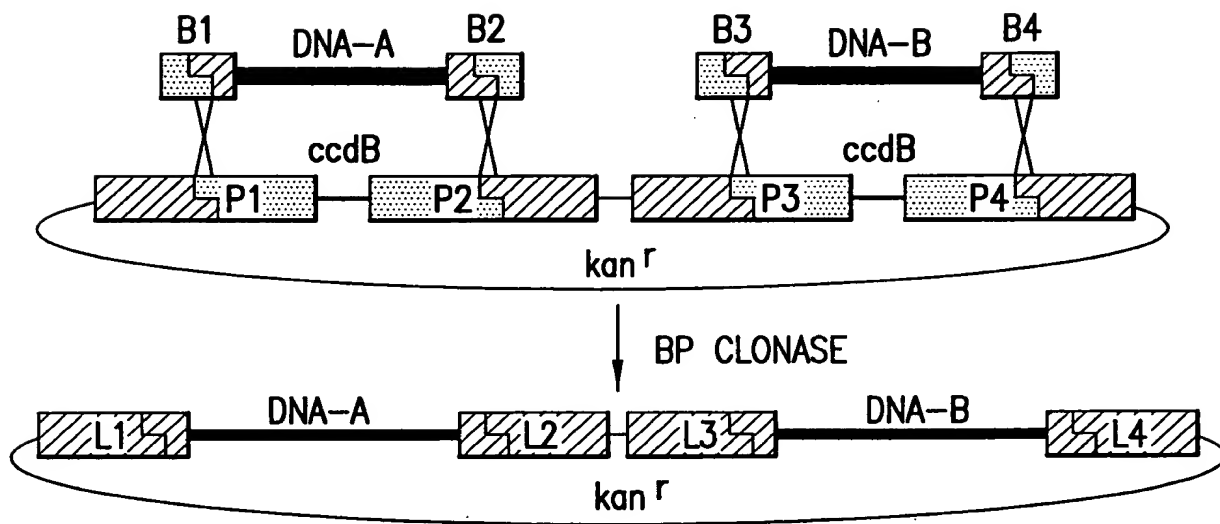


FIG.7

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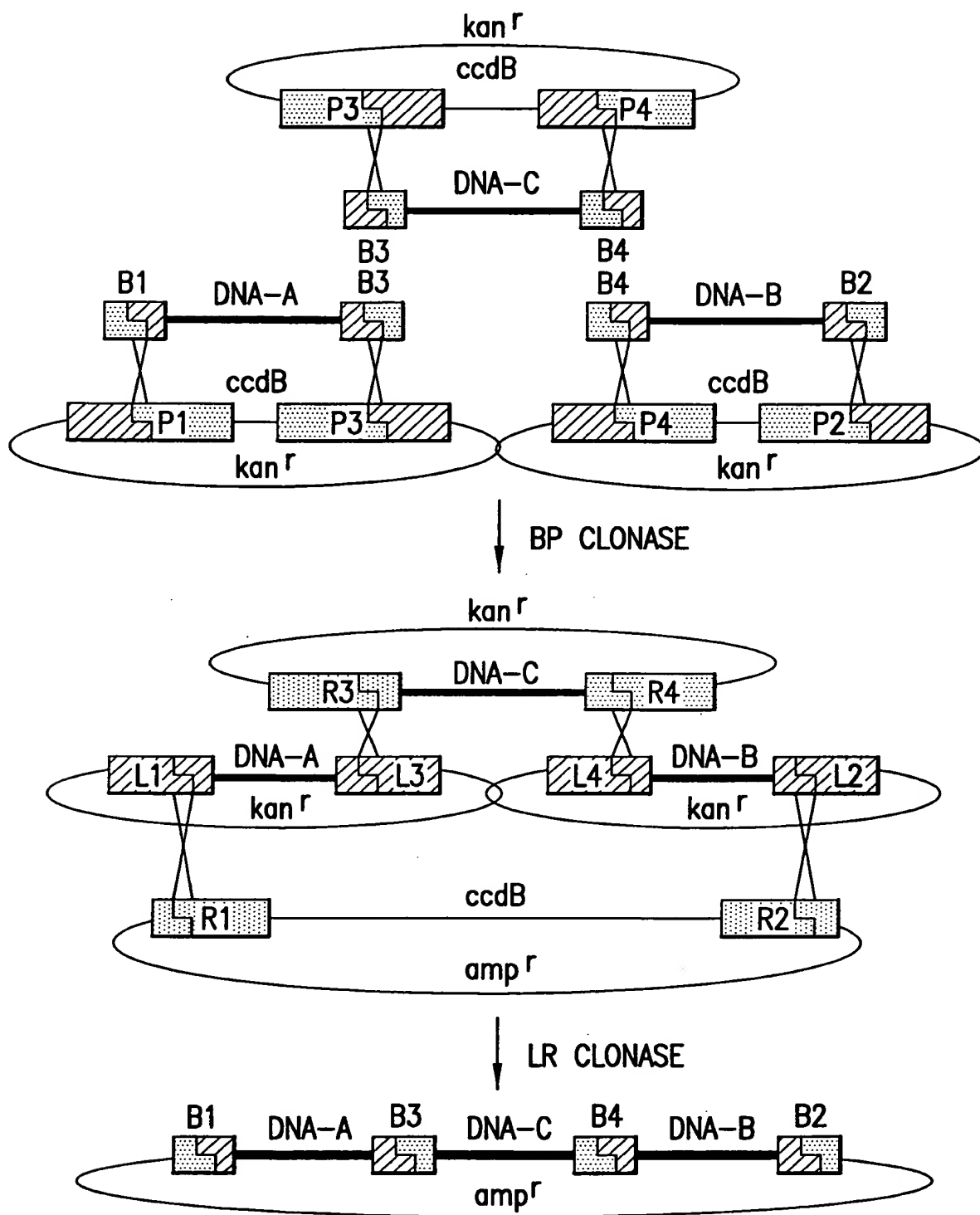


FIG.8

FIG.8

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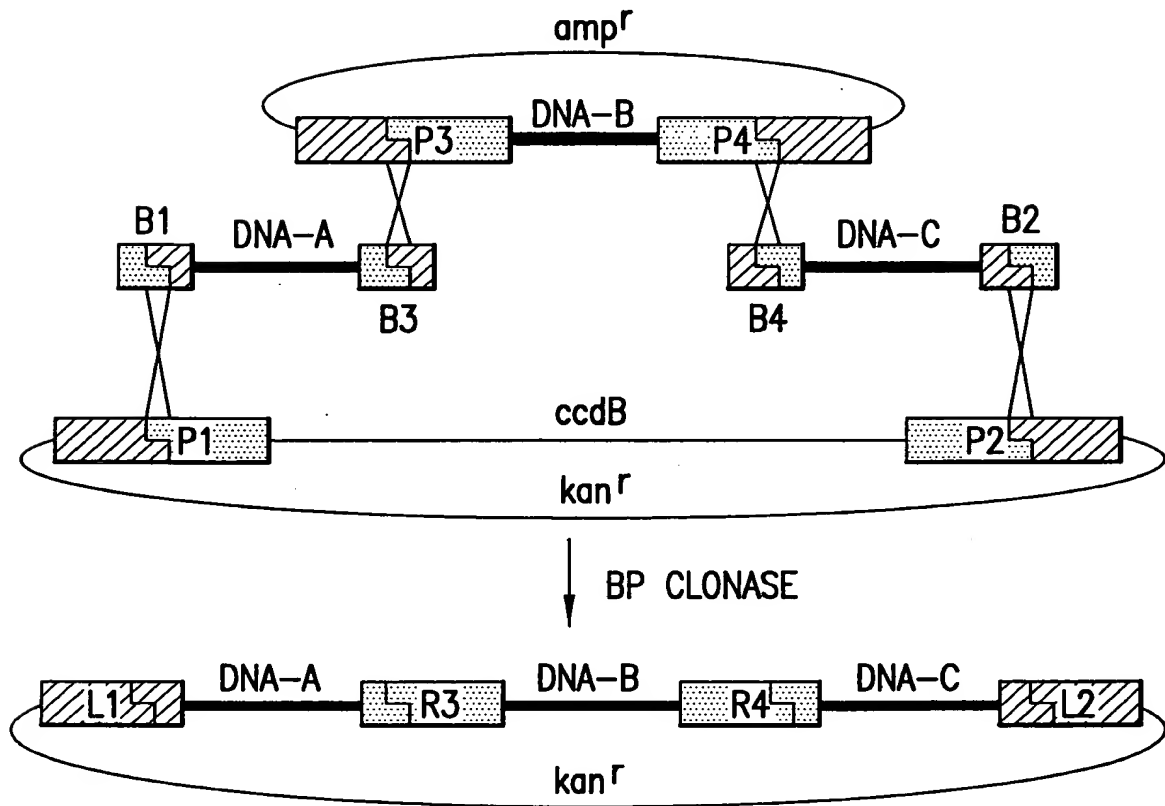


FIG.9

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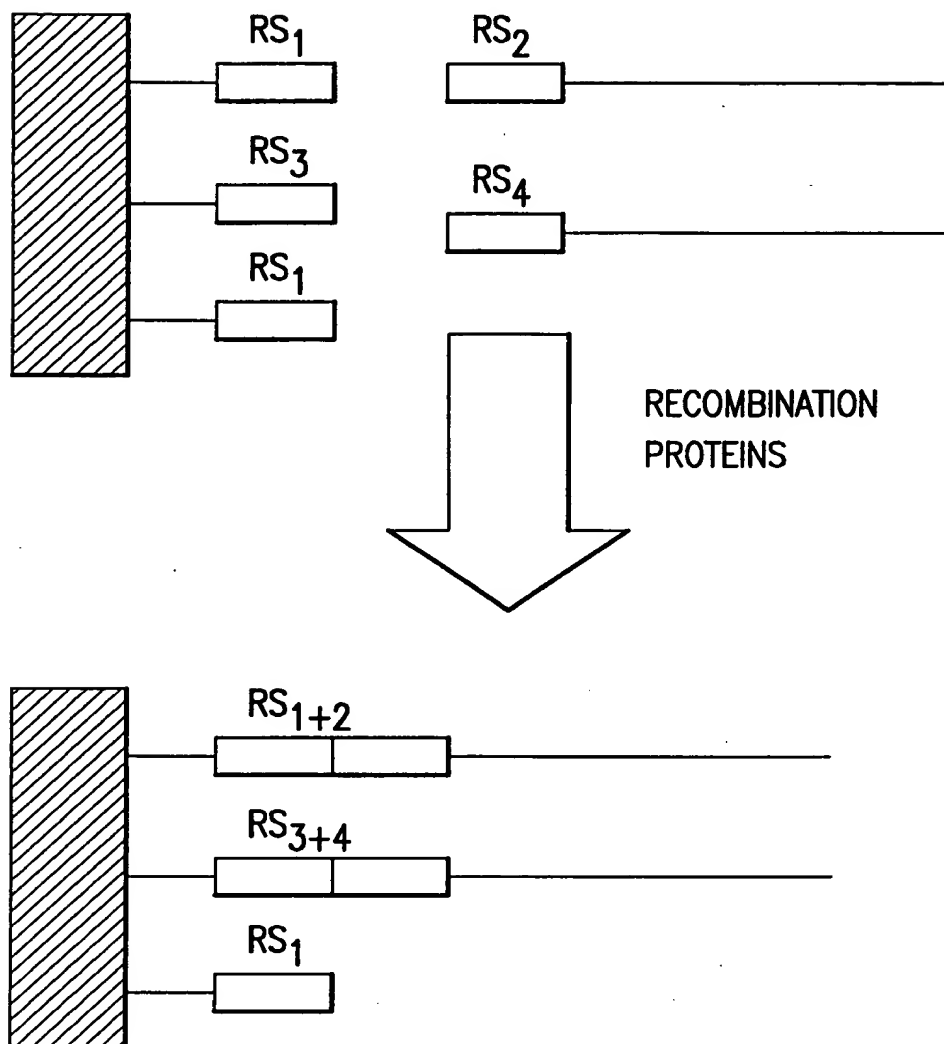


FIG.10

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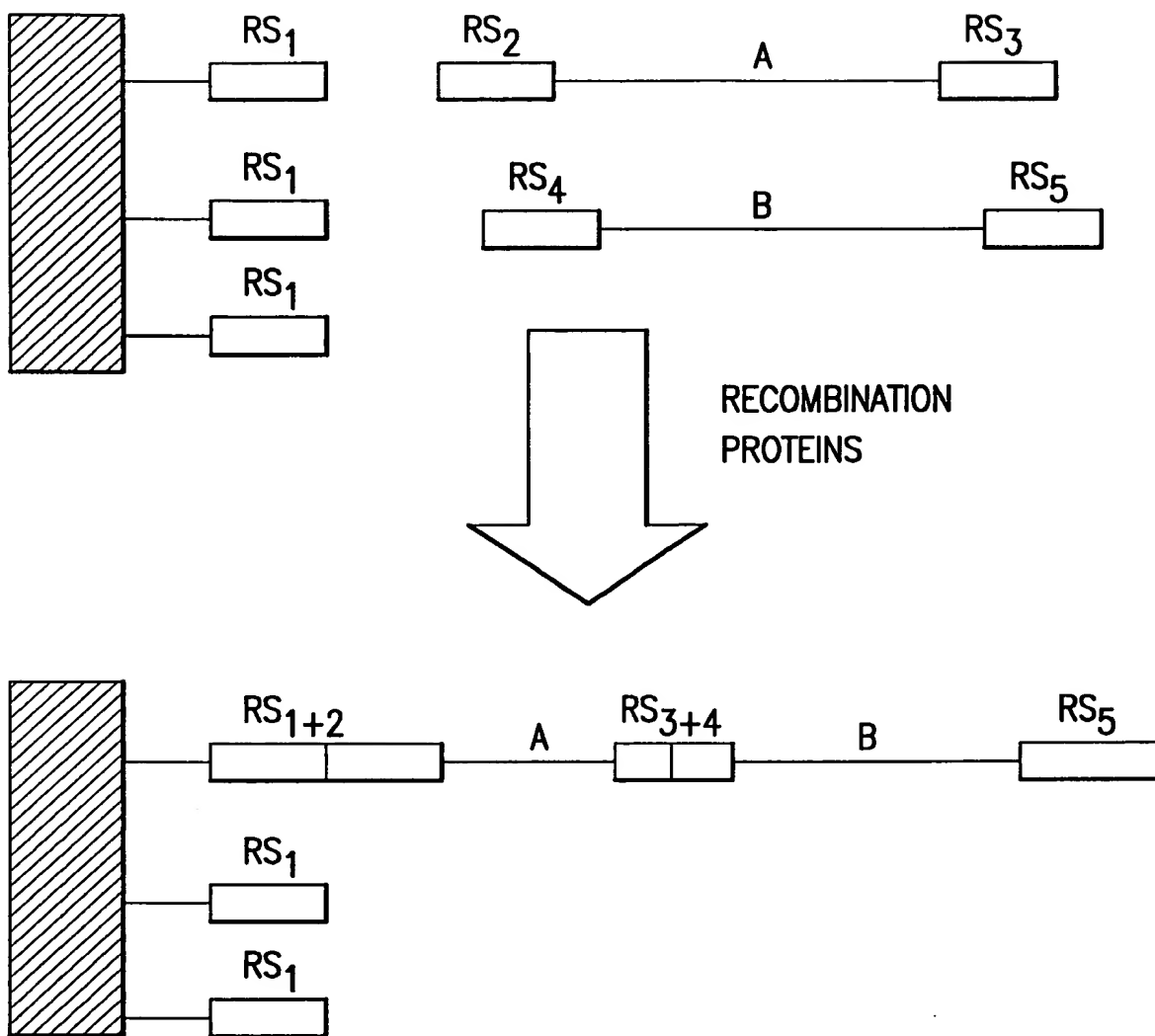


FIG.11

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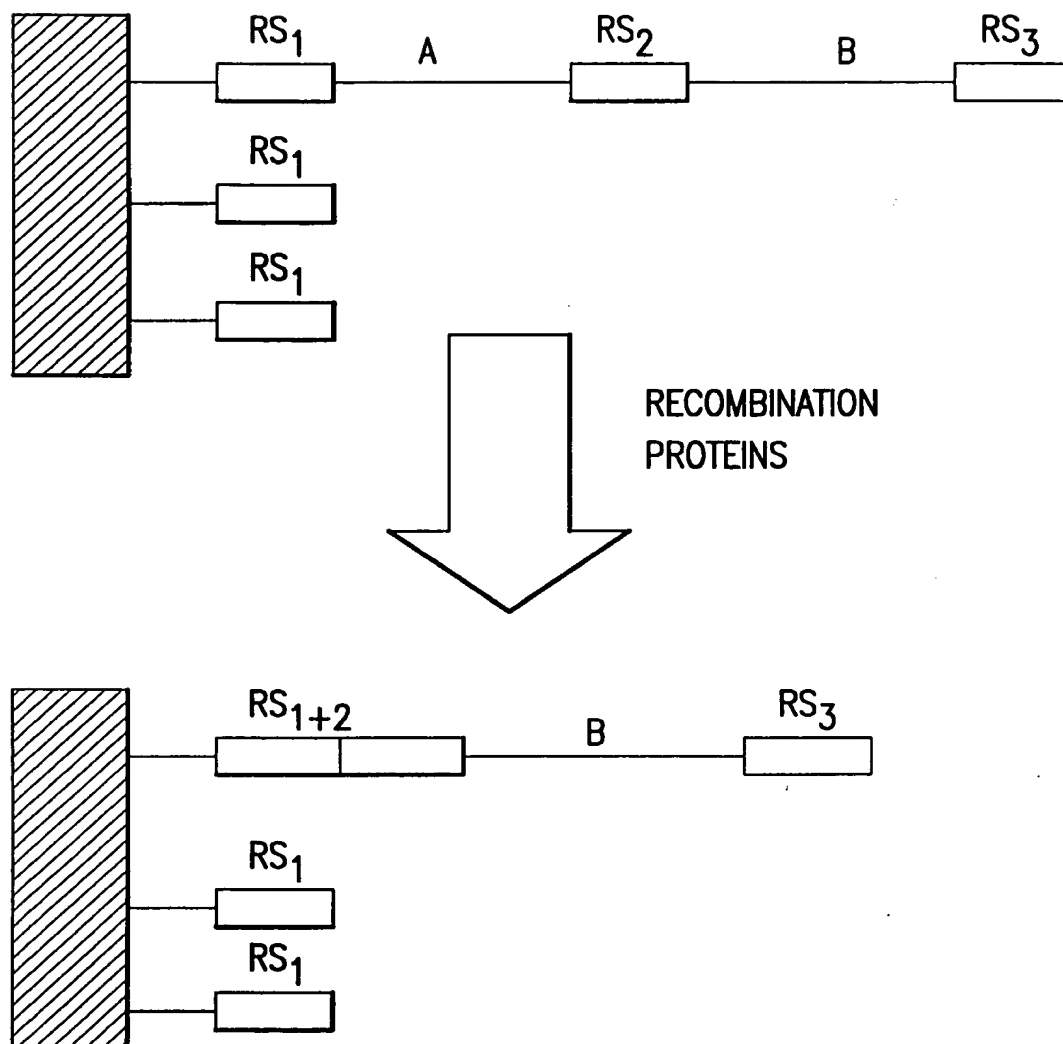


FIG.12

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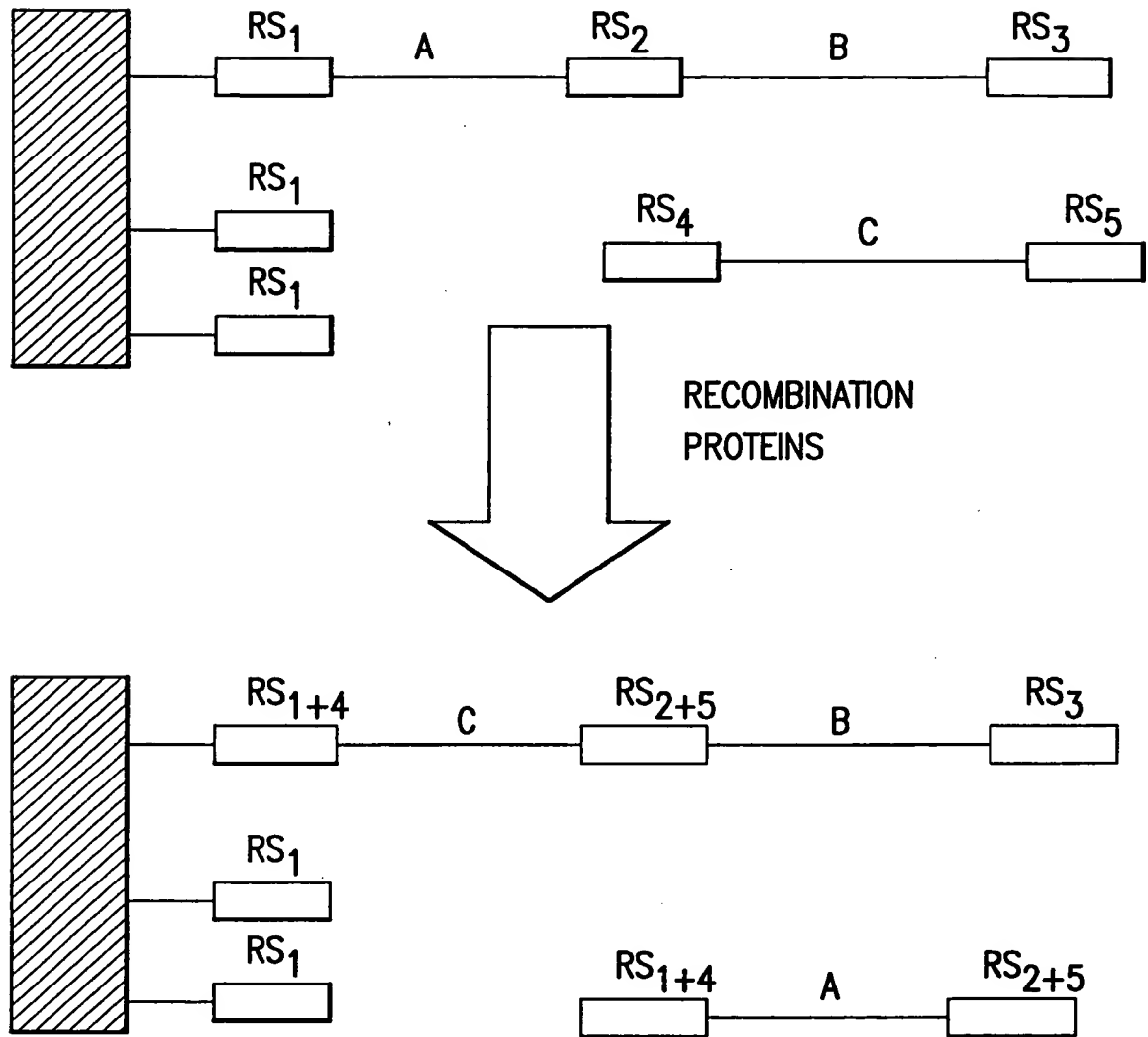


FIG.13

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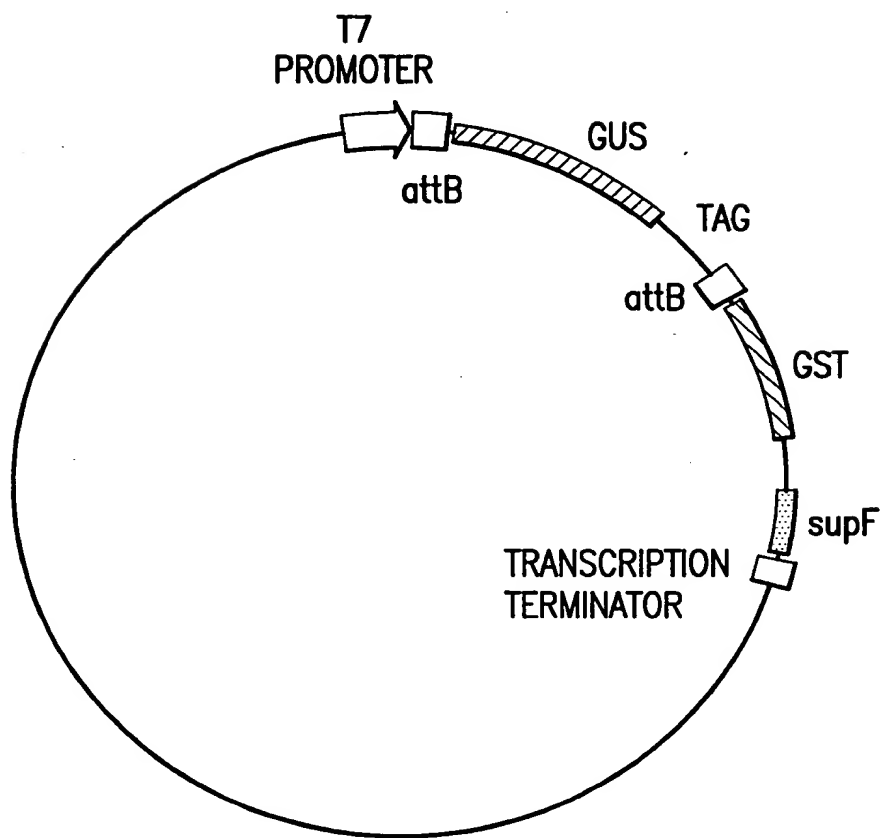


FIG.14A

09732914.050401

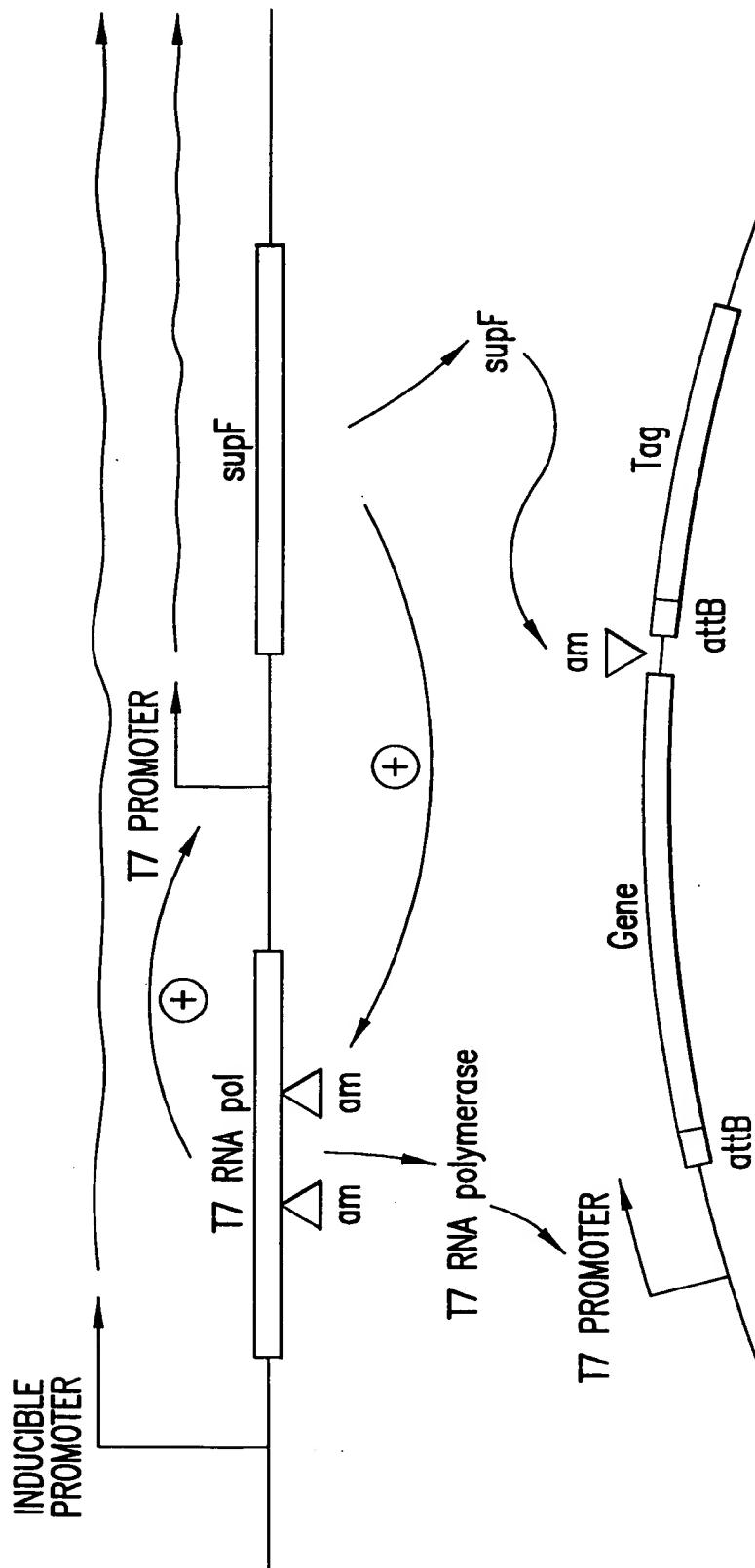


FIG.14B

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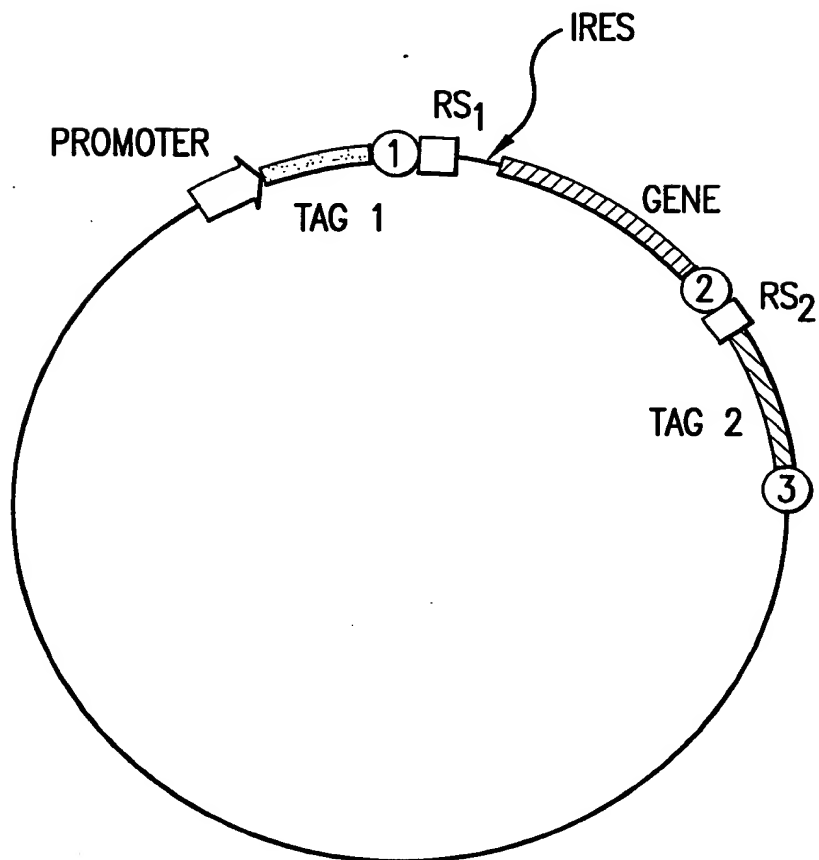


FIG.15

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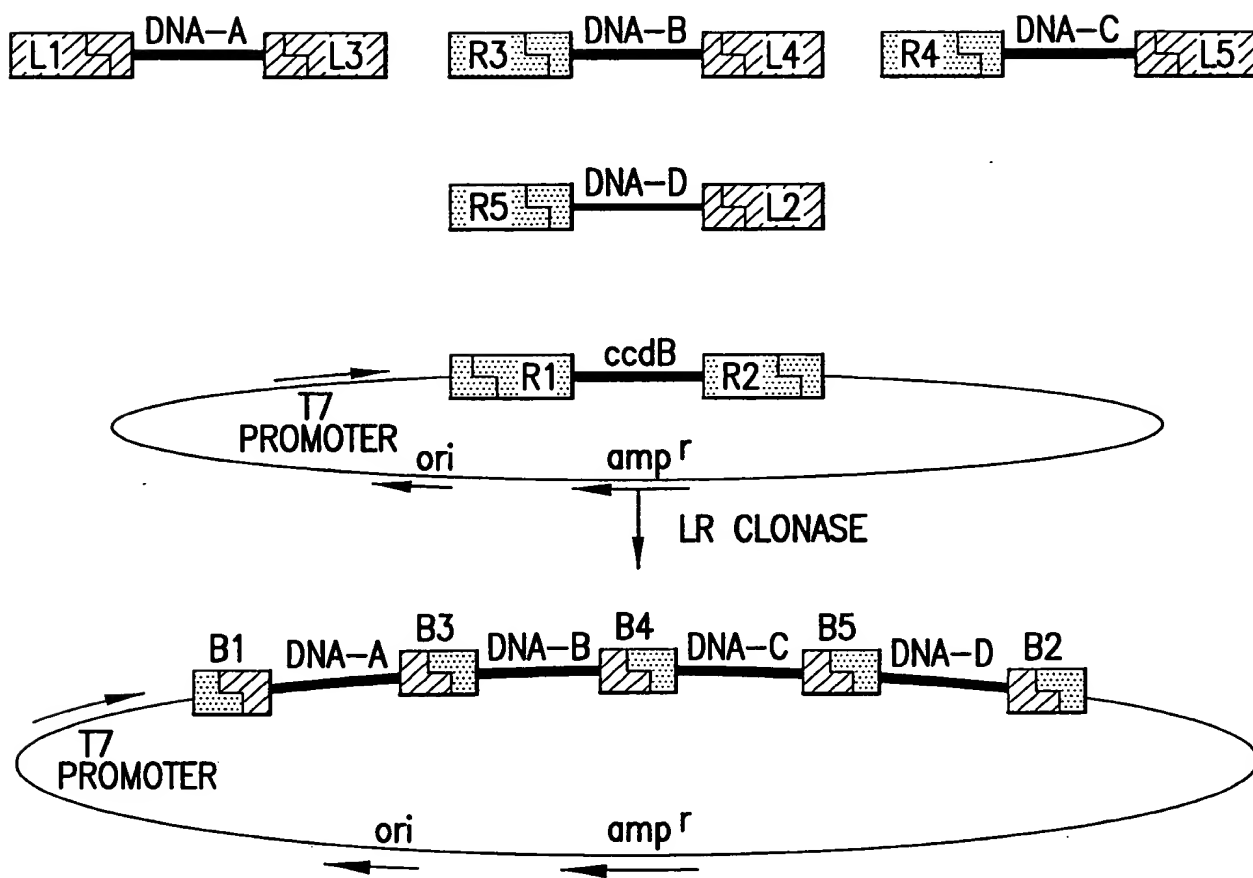


FIG.16

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CLONING LIGHT

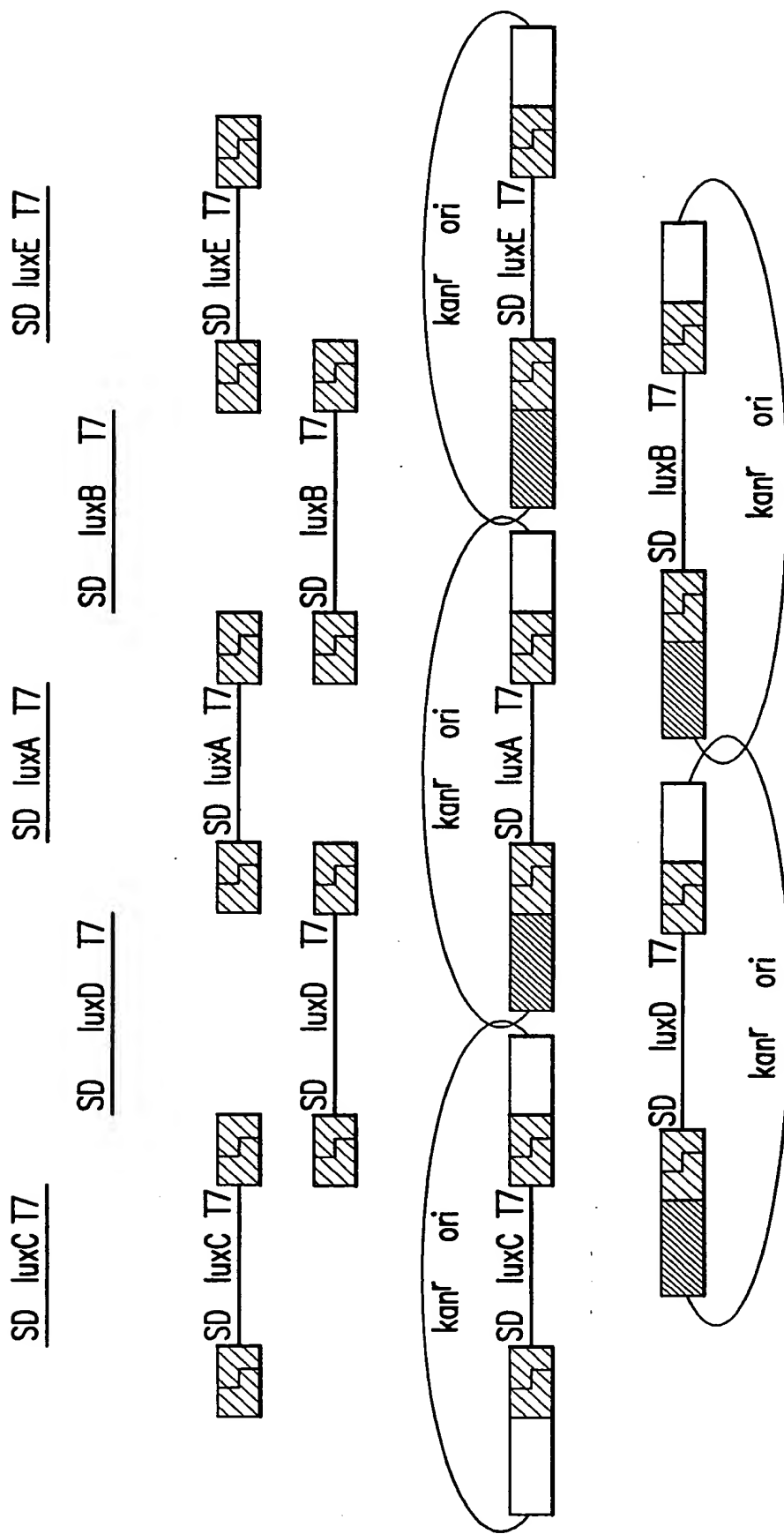


FIG. 17A

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CLOWING LIGHT

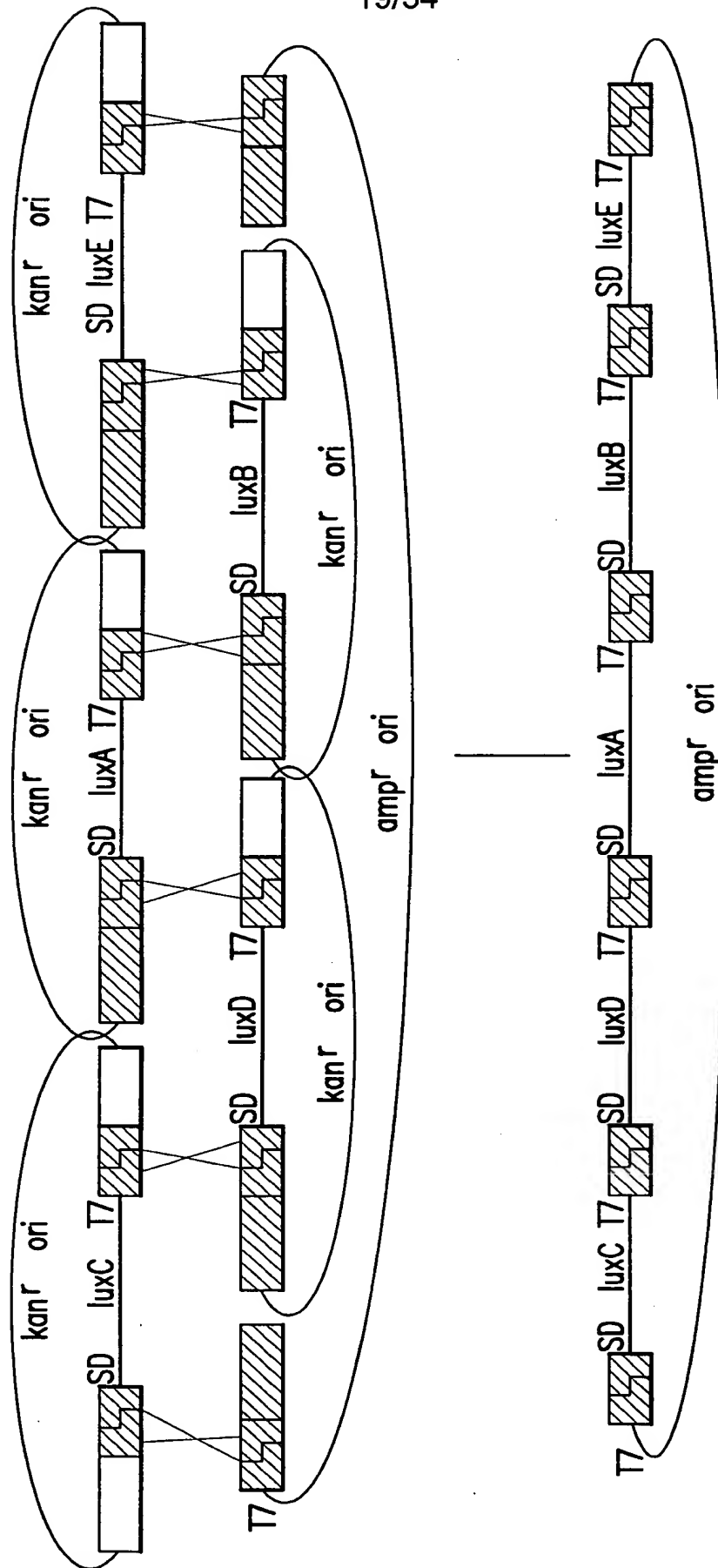


FIG. 17B

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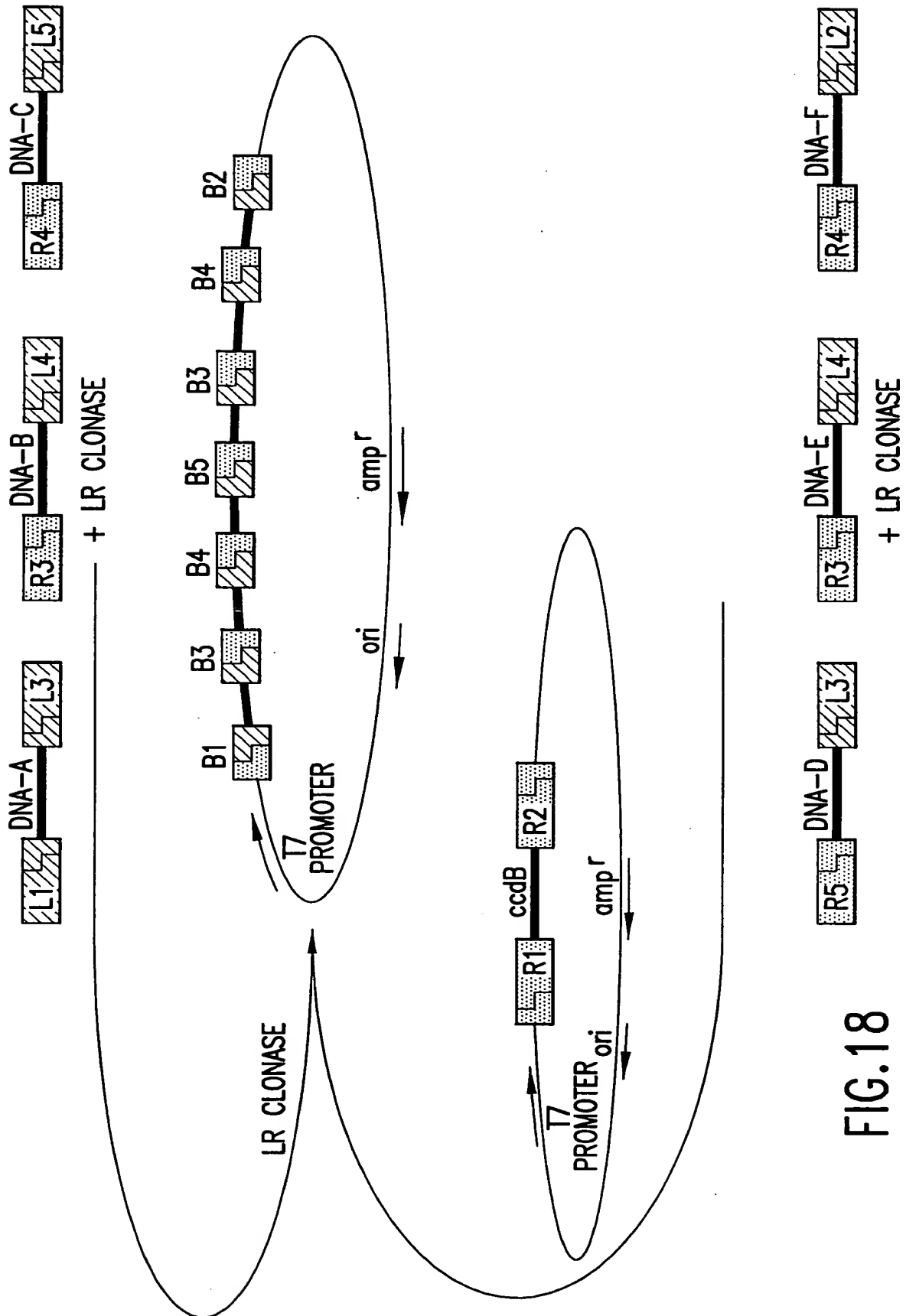


FIG.18

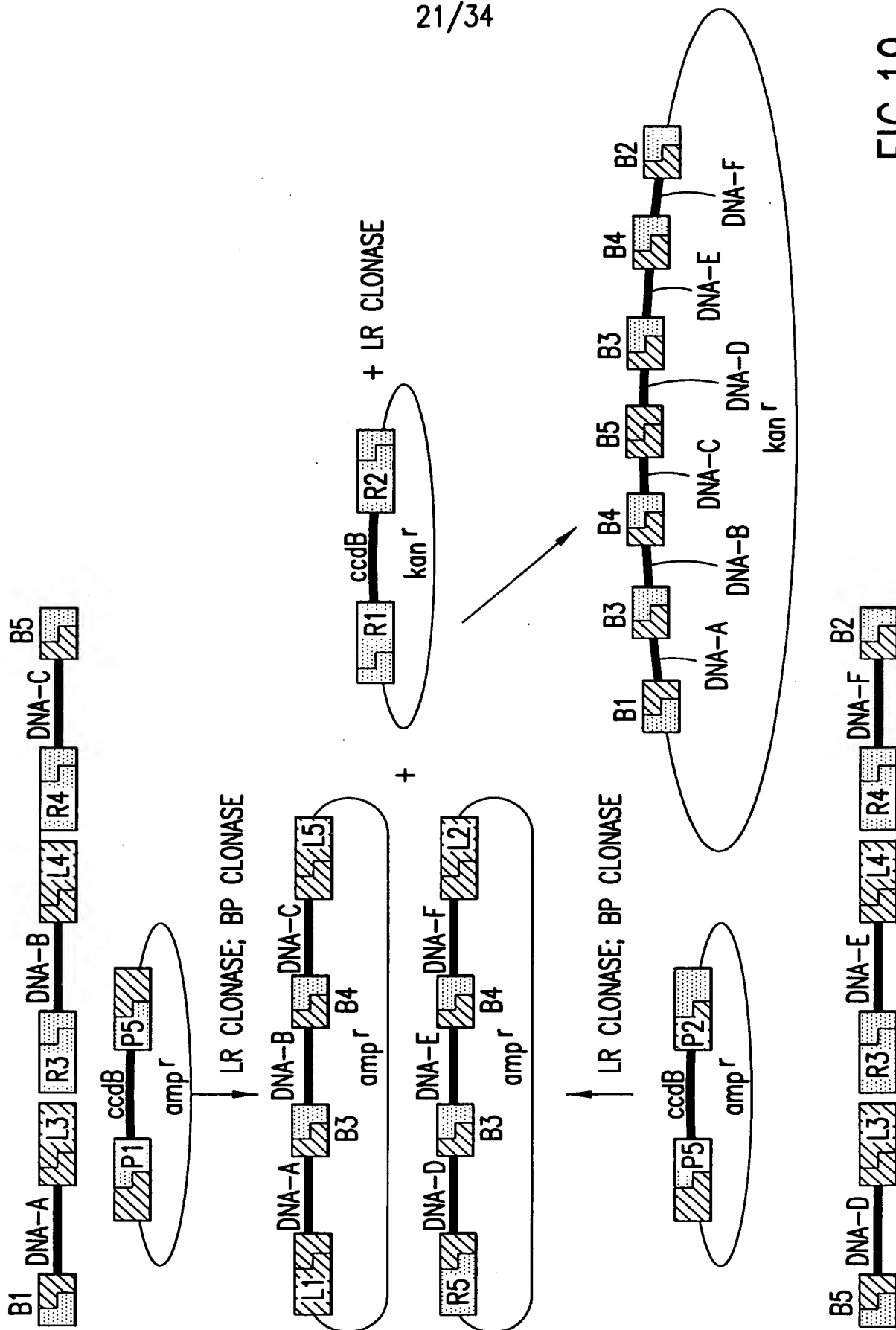


FIG. 19

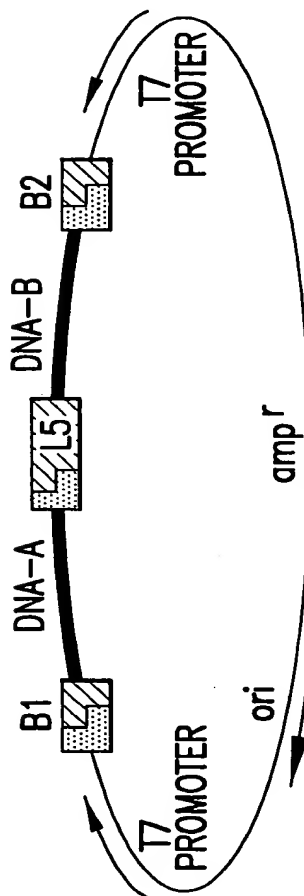


FIG. 20A

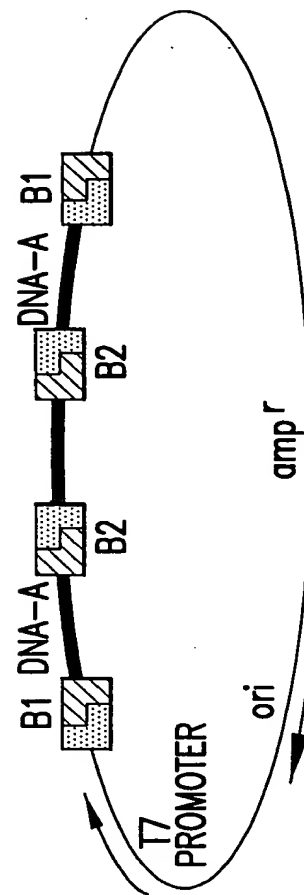


FIG. 20D

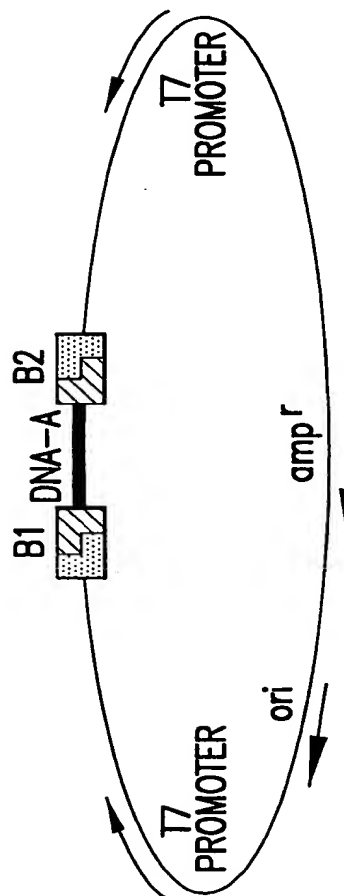


FIG. 20B

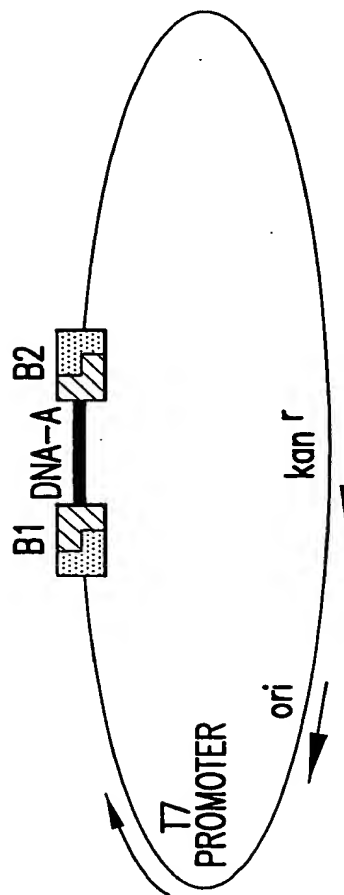


FIG. 20E

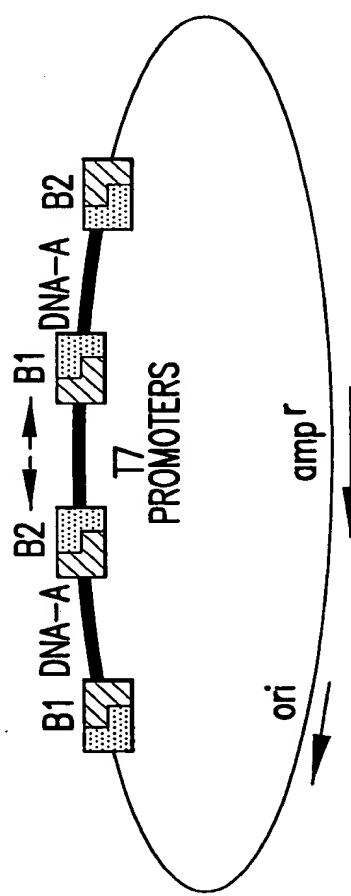


FIG. 20C

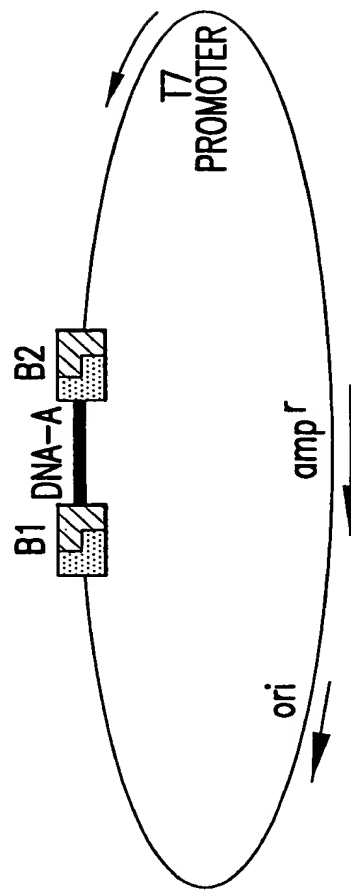


FIG. 20F

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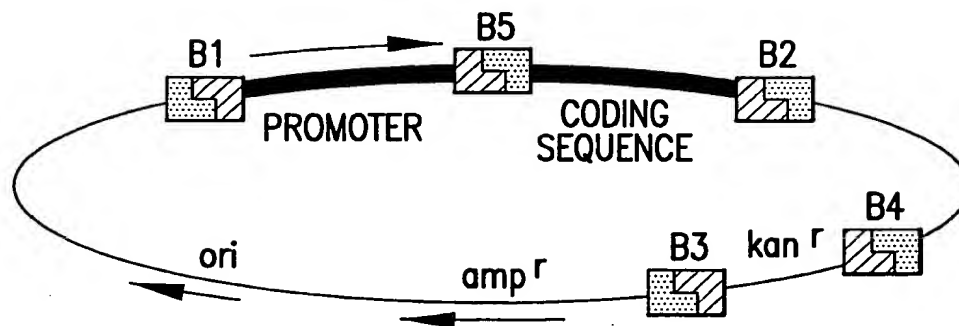


FIG.21A

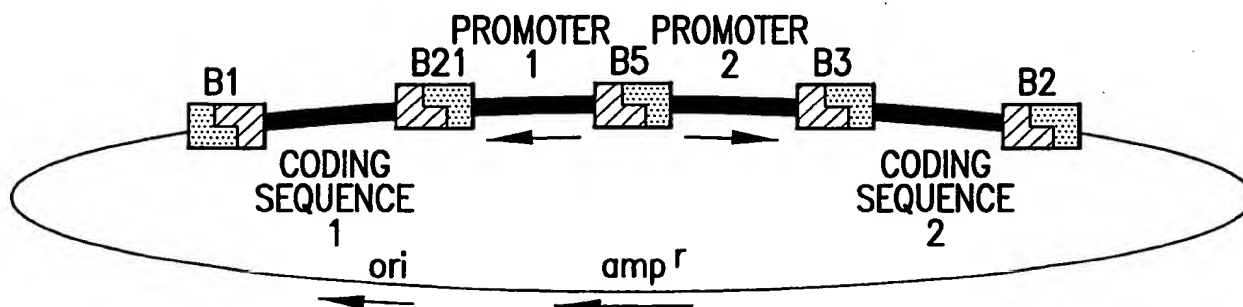


FIG.21B

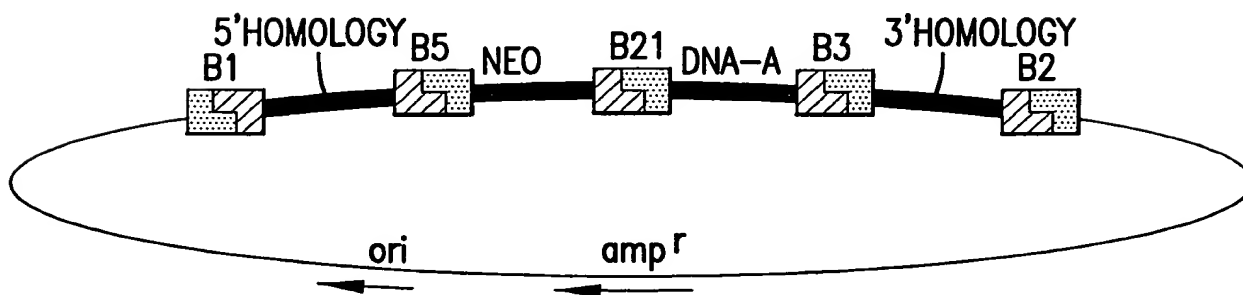


FIG.21C

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CONSTRUCTING GENE TARGETING VECTORS

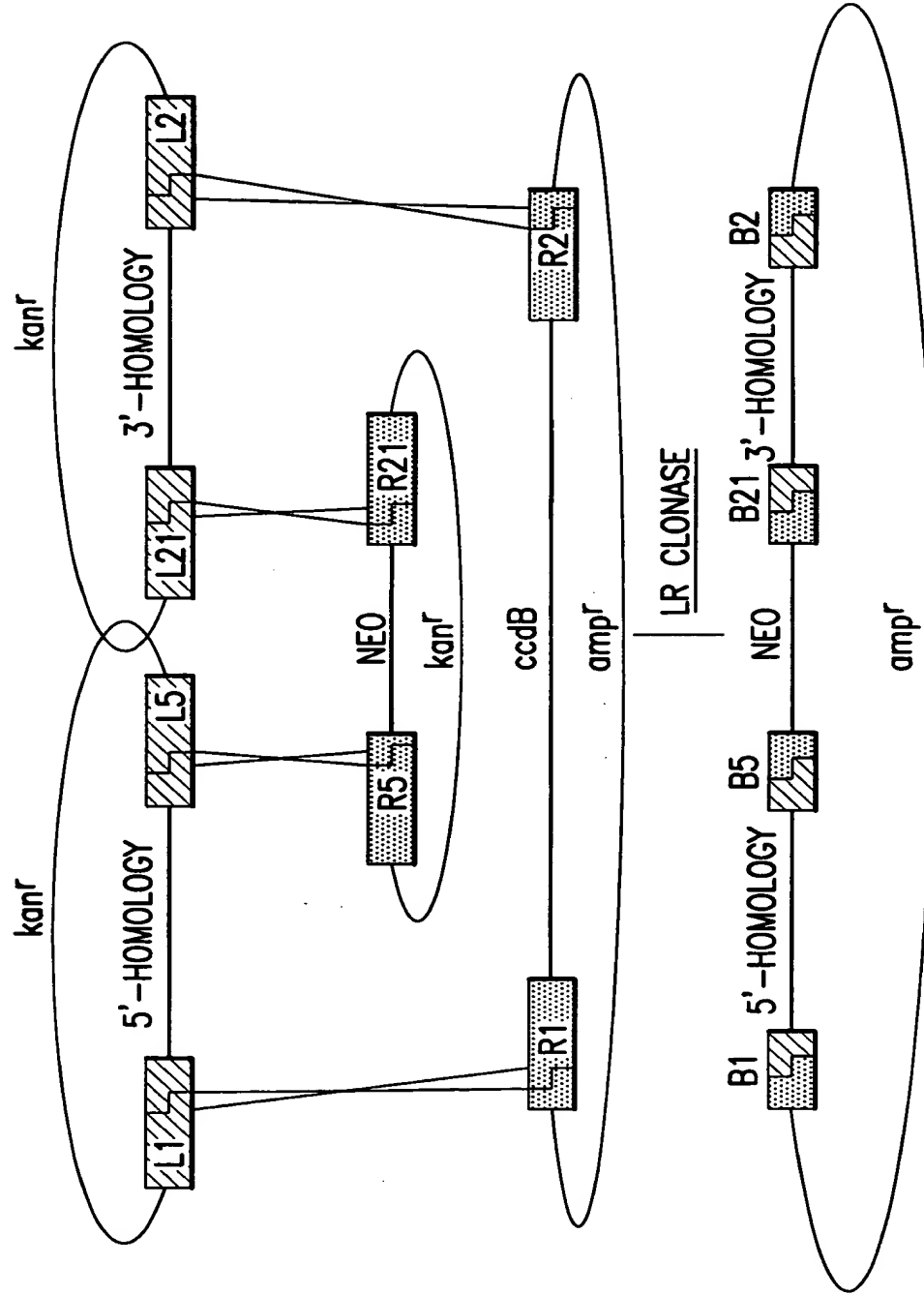


FIG. 22A

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CONSTRUCTING GENE TARGETING VECTORS

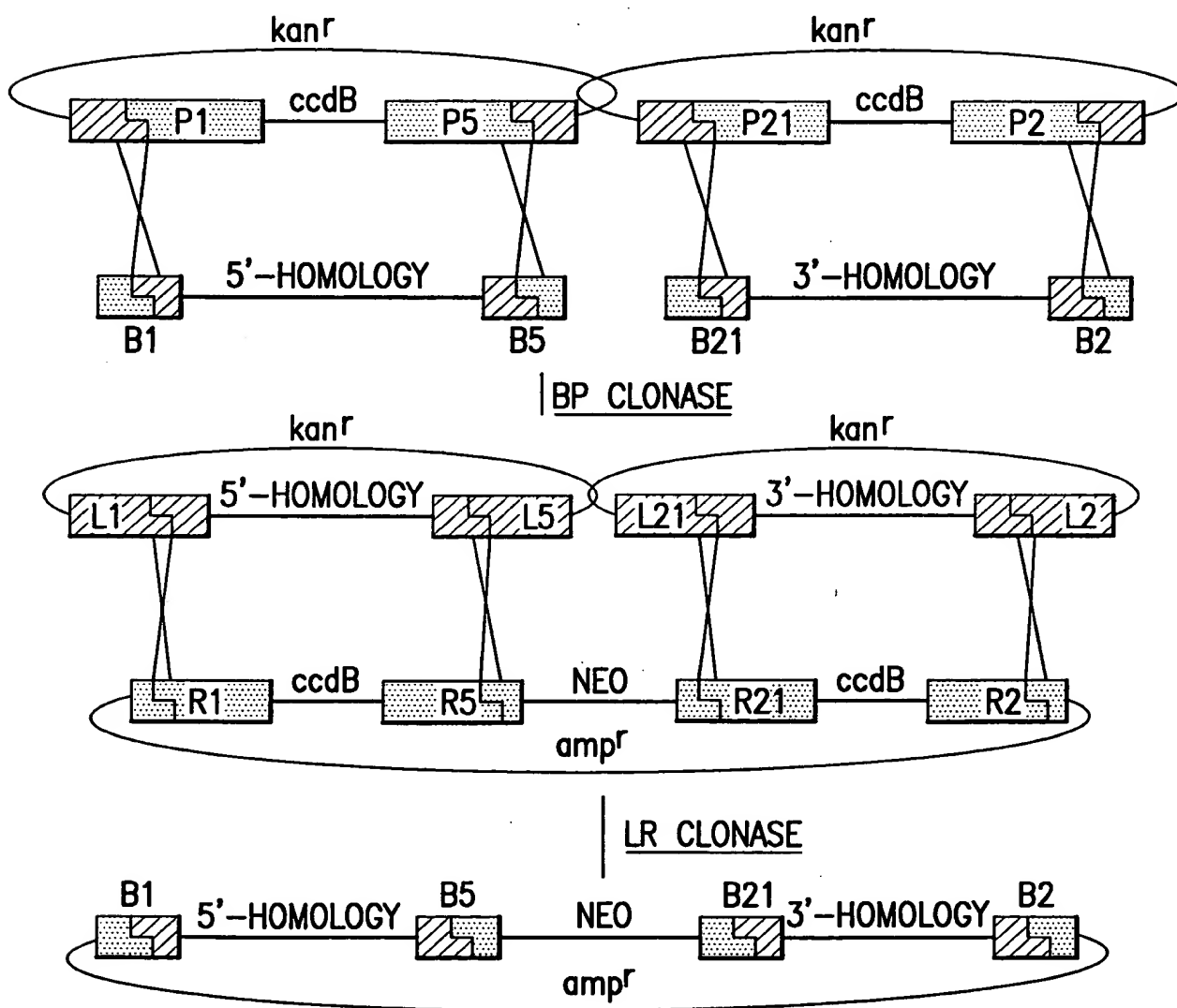


FIG. 22B

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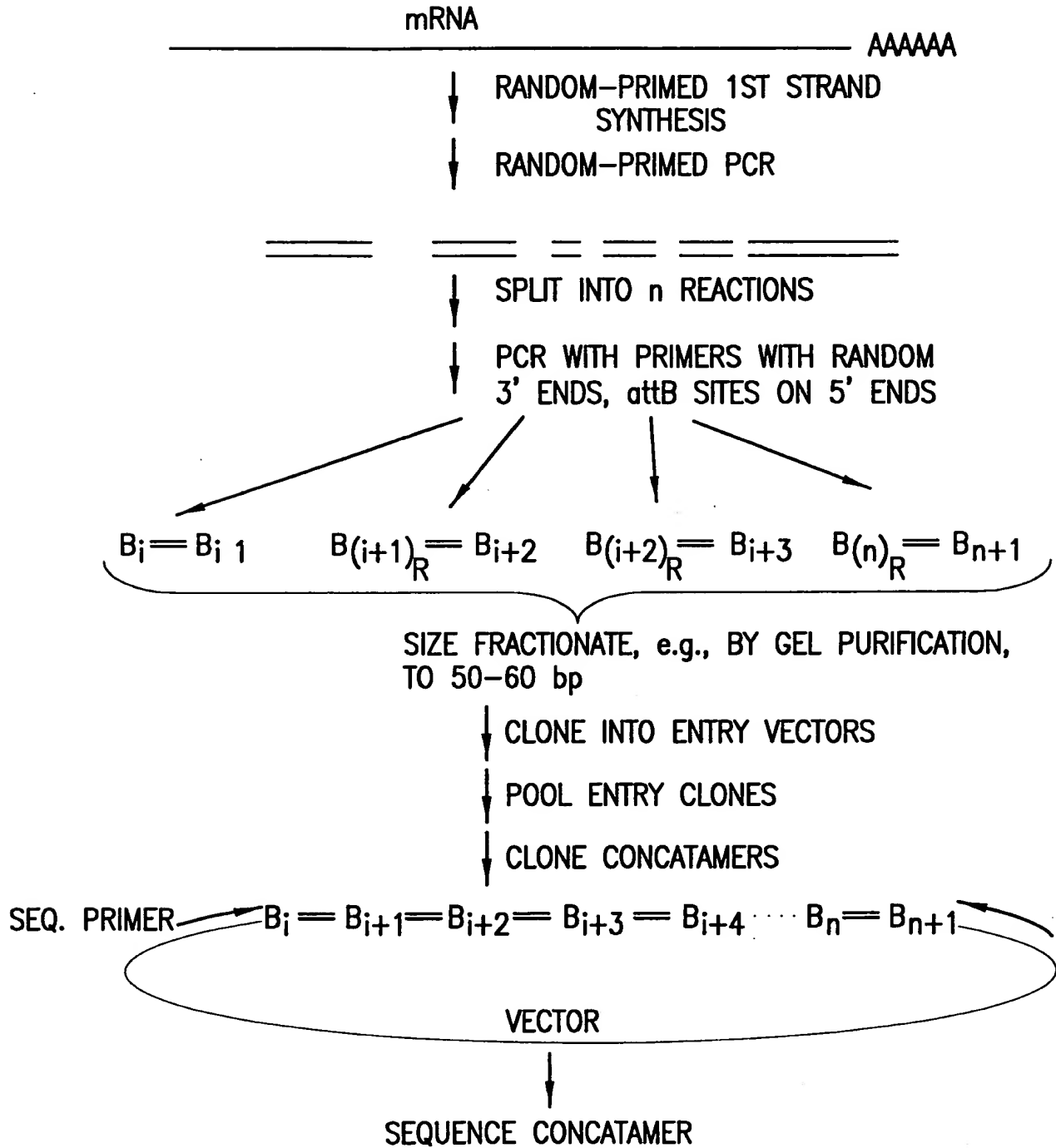


FIG. 23

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attB0 AGCCTGCTTTTTTATACTAACTTGAGC (SEQ ID NO:1)
 TCGGACGAAAAAATATGATTGAACTCG

attP0 GTTCAGCTTTTTTATACTAAGTTGGCA (SEQ ID NO:2)
 CAAGTCGAAAAAATATGATTCAACCGT

attL0 AGCCTGCTTTTTTATACTAAGTTGGCA (SEQ ID NO:3)
 TCGGACGAAAAAATATGATTCAACCGT

attR0 GTTCAGCTTTTTTATACTAACTTGAGC (SEQ ID NO:4)
 CAAGTCGAAAAAATATGATTGAACTCG

attB1 AGCCTGCTTTTTTGTACAACTTGT (SEQ ID NO:5)
 TCGGACGAAAAAATATGTTTGAACA

attP1 GTTCAGCTTTTTTGTACAAAGTTGGCA (SEQ ID NO:6)
 CAAGTCGAAAAAACATGTTTCAACCGT

attL1 AGCCTGCTTTTTTGTACAAAGTTGGCA (SEQ ID NO:7)
 TCGGACGAAAAAACATGTTTCAACCGT

attR1 GTTCAGCTTTTTTGTACAACTTGT (SEQ ID NO:8)
 CAAGTCGAAAAAACATGTTTGAACA

attB2 ACCCAGCTTTCTTGTACAAAGTGGT (SEQ ID NO:9)
 TGGGTCGAAAGAATATGTTTCACCA

attP2 GTTCAGCTTTCTTGTACAAAGTTGGCA (SEQ ID NO:10)
 CAAGTCGAAAGAACATGTTTCAACCGT

attL2 ACCCAGCTTTCTTGTACAAAGTTGGCA (SEQ ID NO:11)
 TGGGTCGAAAGAACATGTTTCAACCGT

attR2 GTTCAGCTTTCTTGTACAAAGTGGT (SEQ ID NO:12)
 CAAGTCGAAAGAACATGTTTGACCA

attB5 CAACTTTATTATACAAAGTTGT (SEQ ID NO:13)
 GTTGAAATAATATGTTTCAACA

attP5 GTTCAACTTTATTATACAAAGTTGGCA (SEQ ID NO:14)
 CAAGTTGAAATAATATGTTTCAACCGT

FIG.24A

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attL5 CAACTTTATTATACAAAAGTTGGCA (SEQ ID NO:15)
 GTTGAAATAATATGTTTCAACCGT

attR5 GTTCAACTTTATTATACAAAAGTTGT (SEQ ID NO:16)
 CAAGTTGAAATAATATGTTTCAACA

attB11 CAACTTTTCTATACAAAAGTTGT (SEQ ID NO:17)
 GTTGAAAAGATATGTTTCAACA

attP11 GTTCAACTTTTCTATACAAAAGTTGGCA (SEQ ID NO:18)
 CAAGTTGAAAAGATATGTTTCAACCGT

attL11 CAACTTTTCTATACAAAAGTTGGCA (SEQ ID NO:19)
 GTTGAAAAGATATGTTTCAACCGT

attR11 GTTCAACTTTTCTATACAAAAGTTGT (SEQ ID NO:20)
 CAAGTTGAAAAGATATGTTTCAACA

attB17 CAACTTTTGTATACAAAAGTTGT (SEQ ID NO:21)
 GTTGAAAACATATGTTTCAACA

attP17 GTTCAACTTTTGTATACAAAAGTTGGCA (SEQ ID NO:22)
 CAAGTTGAAAACATATGTTTCAACCGT

attL17 CAACTTTTGTATACAAAAGTTGGCA (SEQ ID NO:23)
 GTTGAAAACATATGTTTCAACCGT

attR17 GTTCAACTTTTGTATACAAAAGTTGT (SEQ ID NO:24)
 CAAGTTGAAAACATATGTTTCAACA

attB19 CAACTTTTTCGTACAAAAGTTGT (SEQ ID NO:25)
 GTTGAAAAAGCATGTTTCAACA

attP19 GTTCAACTTTTTCGTACAAAAGTTGGCA (SEQ ID NO:26)
 CAAGTTGAAAAAGCATGTTTCAACCGT

attL19 CAACTTTTTCGTACAAAAGTTGGCA (SEQ ID NO:27)
 GTTGAAAAAGCATGTTTCAACCGT

attR19 GTTCAACTTTTTCGTACAAAAGTTGT (SEQ ID NO:28)
 CAAGTTGAAAAAGCATGTTTCAACA

FIG.24B

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attB20 CAACTTTTTTGGTACAAAGTTGT (SEQ ID NO:29)
GTTGAAAAACCATGTTTCAACA

attP20 GTTCAACTTTTTTGGTACAAAGTTGGCA (SEQ ID NO:30)
CAAGTTGAAAAACCATGTTTCAACCGT

attL20 CAACTTTTTTGGTACAAAGTTGGCA (SEQ ID NO:31)
GTTGAAAAACCATGTTTCAACCGT

attR20 GTTCAACTTTTTTGGTACAAAGTTGT (SEQ ID NO:32)
CAAGTTGAAAAACCATGTTTCAACA

attB21 CAACTTTTTTAATACAAAGTTGT (SEQ ID NO:33)
GTTGAAAAATTATGTTTCAACA

attP21 GTTCAACTTTTTTAATACAAAGTTGGCA (SEQ ID NO:34)
CAAGTTGAAAAATTATGTTTCAACCGT

attL21 CAACTTTTTTAATACAAAGTTGGCA (SEQ ID NO:35)
GTTGAAAAATTATGTTTCAACCGT

attR21 GTTCAACTTTTTTAATACAAAGTTGT (SEQ ID NO:36)
CAAGTTGAAAAATTATGTTTCAACA

FIG.24C

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VECTOR ASSEMBLY USING MODULAR VECTOR ELEMENT ENTRY CLONES

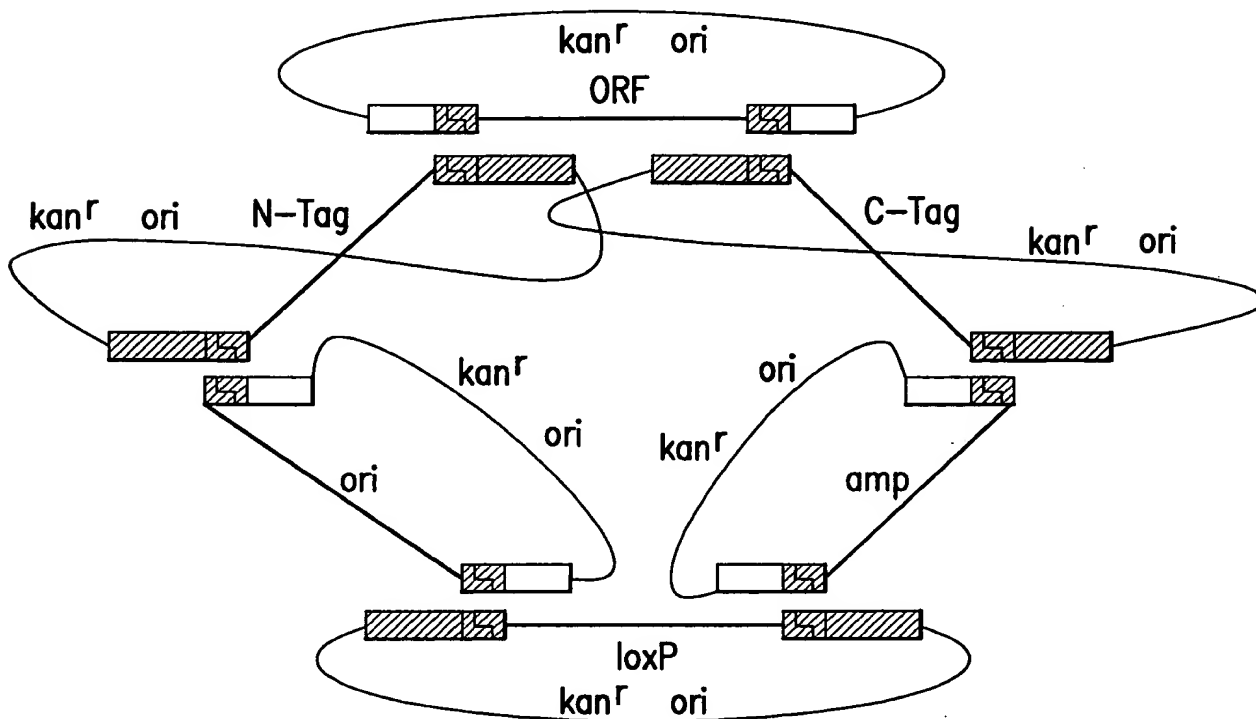


FIG. 25A

VECTOR ASSEMBLY USING MODULAR VECTOR ELEMENT ENTRY CLONES

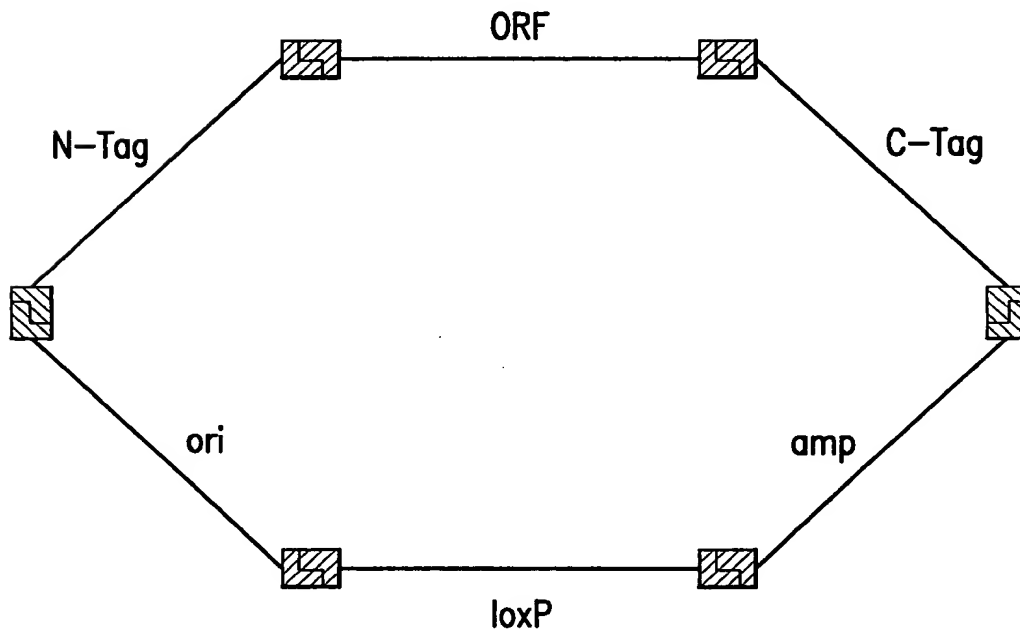


FIG. 25B

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 101050-1162260

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CONSTRUCTION OF attP PLASMIDS

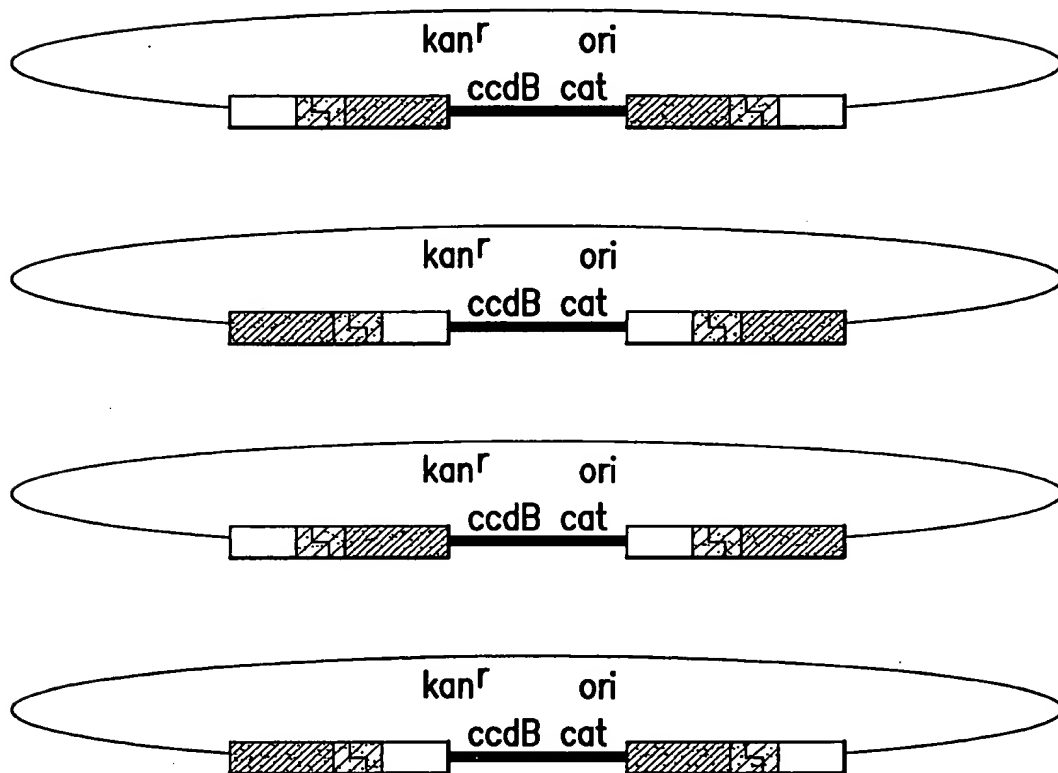


FIG.26A

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T04050-4162260

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CONSTRUCTION OF attP PLASMIDS

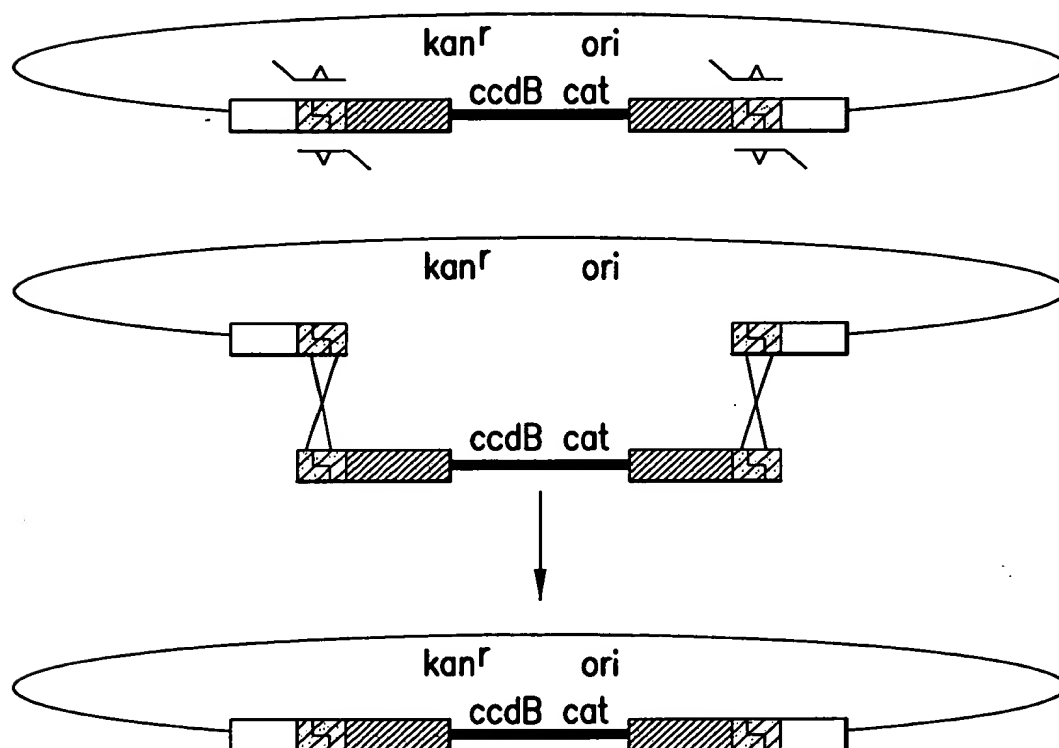


FIG.26B

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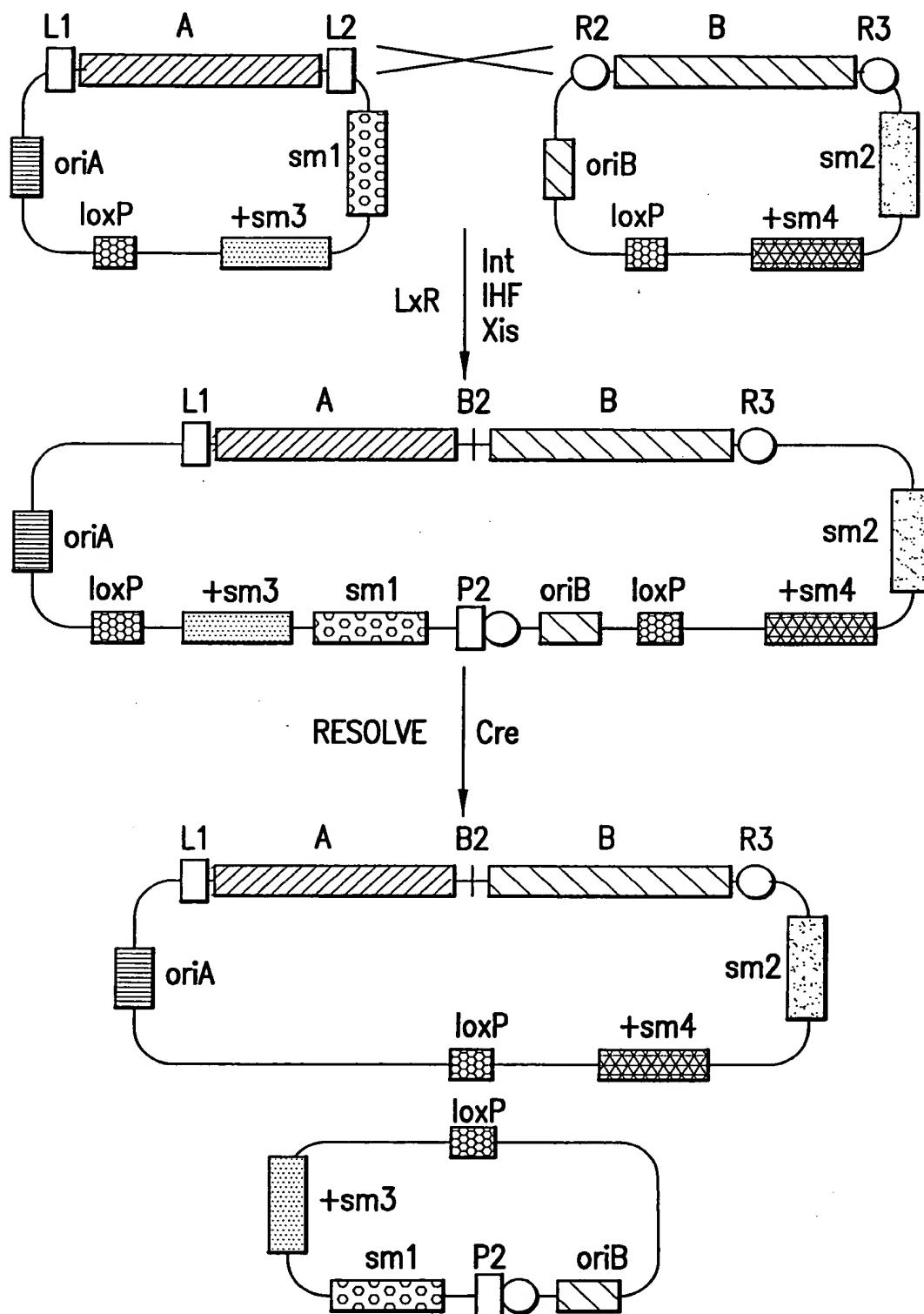


FIG.27A

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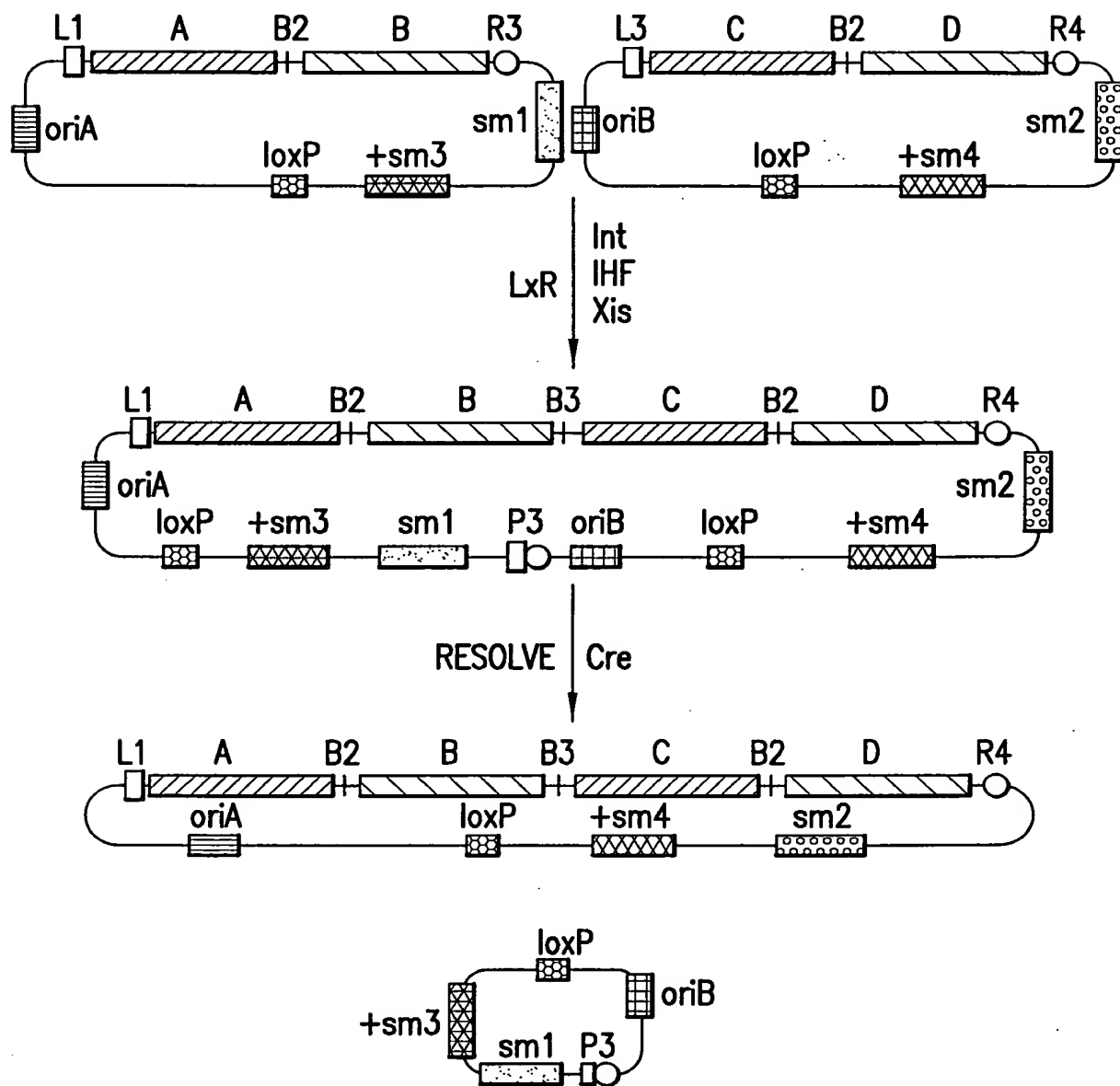


FIG.27B

09425010002-11622600